

ORDER NO. ARP3504

KRP-600P

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
KRP-600P	WYSIXK5	AC 220 V to 240 V	
KRP-600P	WYS5	AC 220 V to 240 V	
KRP-600P	WA5	AC 220 V to 240 V	



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SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

^B This product contains certain electrical parts contain chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

C Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

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Leakage Current Cold Check

With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of 4 $M\Omega$.

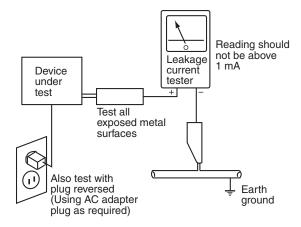
The below 4 M Ω resistor value indicate an abnormality which require corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 1 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

(9) There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



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Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS 1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
 Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.

 Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
- GYP1006 1.0 in dia.
- GYP1007 0.6 in dia.
- GYP1008 0.3 in dia.

1.2 NOTES SPECIFIC TO THIS PRODUCT

• In same cases, there are silicon sheets on back side of POWER SUPPLY Unit, X DRIVE Assy and Y DRIVE Assy due to heat release of these boards to panel chassis. When replacing these boards, check backside of them and if silicon sheets are on there, surely put these silicon sheets again to the original location of them.

1.3 CHARGED SECTION AND HIGH VOLTAGE GENERATING POINT

■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. Power Cord
- 2. AC Inlet
- 3. Power Switch
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■ High Voltage Generating Point

The places where voltage is 100 V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

The VSUS voltage remains for several minutes after the power to the unit is turned off. These places must not be touched until about 10 minutes after the power is turned off, or it is confirmed with a tester that there is no residual VSUS voltage.

If the procedures described in "5.6 [1] PANEL DRIVE-POWER ON/OFF FUNCTION" are performed before the power is turned off, the voltage will be discharged in about 30 seconds.

60F X DRIVE Assy	(210 V)
60F Y DRIVE Assy	
60F SCAN A Assy	(-280 V to 420 V)
60F SCAN B Assy	(-280 V to 420 V)
60F SCAN C Assy	(-280 V to 420 V)
60F SCAN D Assy	(-280 V to 420 V)

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

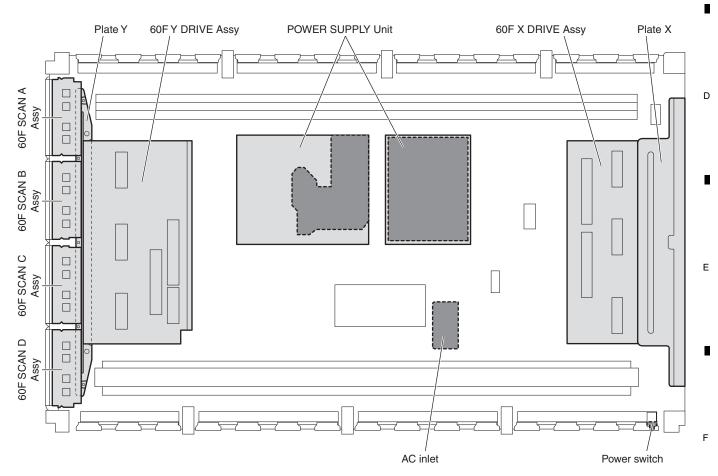


Fig. High Voltage Generating Point (Rear view)

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2. SPECIFICATIONS

2.1 ACCESSORIES

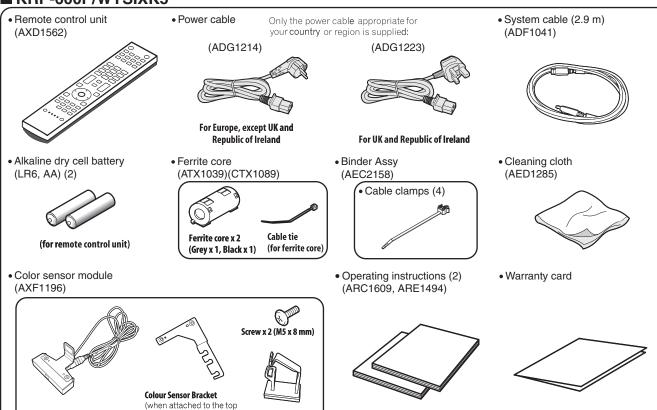
■ KRP-600P/WYSIXK5

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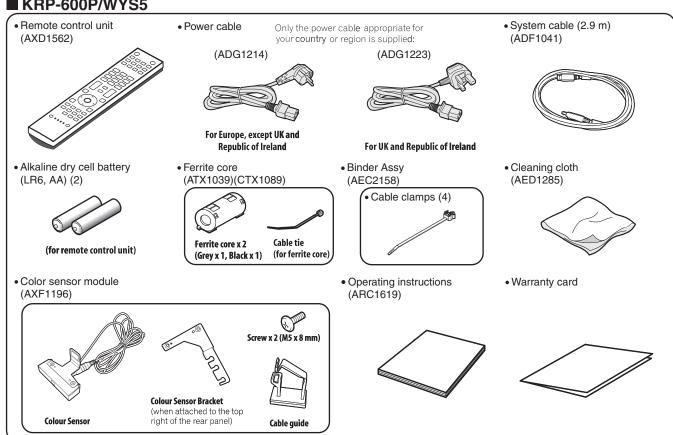


Cable guide

■ KRP-600P/WYS5

Colour Sensor

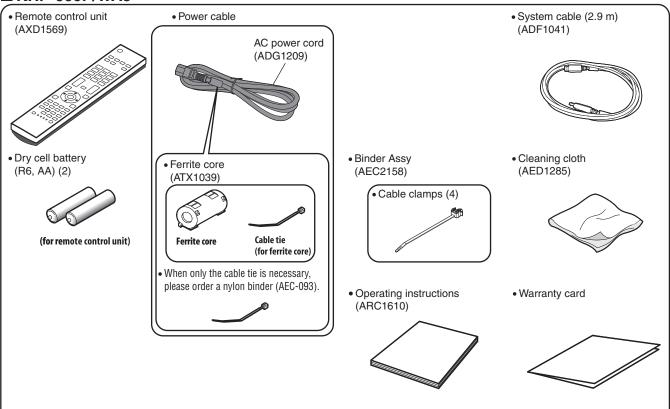
right of the rear panel)



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■ KRP-600P/WA5



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2.2 SPECIFICATIONS

Item 60" display, model: KRP-600P Number of pixels 1920 x 1080 pixels Audio amplifier $18 \text{ W} + 18 \text{ W} (1 \text{ kHz}, 10 \%, 6 \Omega)$ Sound Effect SRS FOCUS/SRS/SRS TruBass/SRS Definition Power Requirements 220 V to 240 V AC, 50 Hz/60 Hz, 478 W (0.4 W Standby) : For WYSIXK5 and WYS5 types 220 V to 240 V AC, 50 Hz/60 Hz, 502 W (0.5 W Standby) : For WA5 type Main unit: 49.9 kg (110 lbs) Weight Colour Sensor: 0.1 kg (0.2 lbs): WYSIXK5 and WYS5 types only Terminals Rear SPEAKERS 6 **Ω** to 16 **Ω** SYSTEM CABLE Colour Sensor 1

Dimensions (Display)

KRP-600P Unit: mm

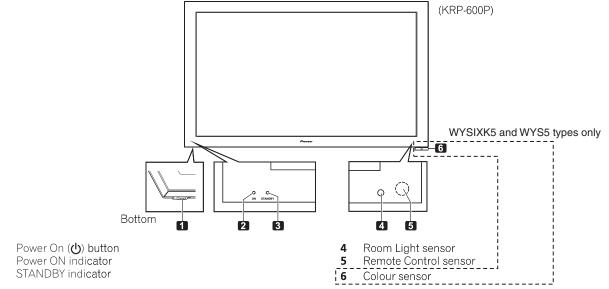
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WYSIXK5 and WYS5
types only
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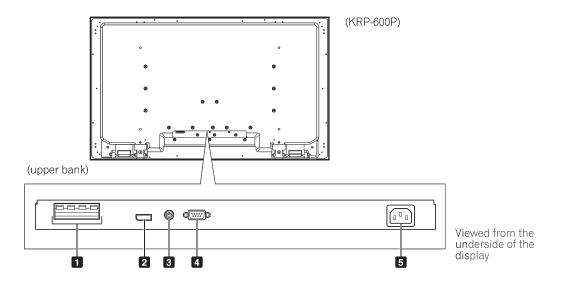
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2.3 PANEL FACILITIES

(Front)



(Rear)



- 1 SPEAKERS terminals (right/left)
 - Do not connect any devices to the speaker terminals other than the speakers specified.
 - Do not leave speaker cable wires bare and exposed at the terminals. Exposed wires can result in an electrical short causing malfunction or damage to the system.
- SYSTEM CABLE terminal
- 3 Colour sensor terminal
- **4** RS-232C terminal (SERVICE ONLY) (used for factory setup)
- 5 AC IN terminal

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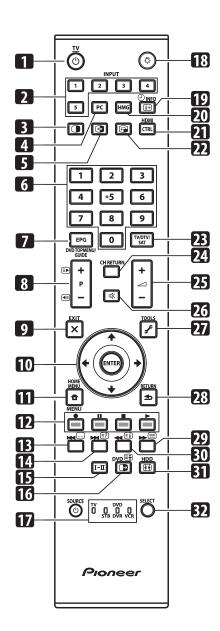
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■ Remote Control Unit (for WYSIXK5 and WYS5 types)

This section describes the functions of the buttons available when the TV mode has been selected by using the **SELECT** button.



- 1 OTV: Turns on the power to the flat screen TV or places it into the standby mode.
- 2 INPUT: Selects an input source of the flat screen TV. ("INPUT 1", "INPUT 2", "INPUT 3", "INPUT 4", "INPUT 5")
- 3 Switches the screen mode among 2-screen, picture-inpicture, and single-screen.
- **4 PC:** Selects the PC terminal as an input source.
- 5 Switches between the two screens when in the 2-screen or picture-in-picture mode.

- **0 to 9:** TV/External input mode: Selects a channel. Teletext mode: Selects a page.
- Turns the power on when the STANDBY indicator lights red.
- **7 EPG:** Displays the Electronic Programme Guide in DTV/SAT (Satellite) input mode.
- 8 P+/P-: TV/External input mode: Selects a channel.

 E>/(EE): Teletext mode: Selects a page.
- **9 X EXIT:** Returns to the normal screen in one step.
- 10 ↑/↓/←/→: Selects a desired item on the setting screen. ENTER: Executes a command.
- 11 THOME MENU: Displays the HOME MENU screen.
- 12 Colour (RED/GREEN/YELLOW/BLUE):

Controls a BD player for HDMI Control functions only.

- 13: Jumps to Teletext subtitle page.
 Turns subtitle on and off in DTV input mode depending on the broadcast.
- 14 (E?): Displays hidden characters.
- **15 I**−**II**: Sets the sound multiplex mode.
- 16 TV/External input mode: Freezes a frame from a moving image. Press again to cancel the function.
 - ET: Teletext mode: Stops updating Teletext pages. Press again to release the hold mode.
- 17 TV, STB, DVD/DVR, VCR: These indicators show the current selection and status when you control other connected equipment, using the supplied remote control unit.
- 18 ①: Lights up buttons.

 Lights turn off if no operations are performed within five seconds. This is used for remote control use in dark locations.
- 19 (1) INFO: Displays the channel information. Displays the banner information.
- **20 HMG (Home Media Gallery):** Displays the Home Media Gallery screen.
- 21 HDMI CTRL: Displays the HDMI Control menu.
- 22 Moves the location of the small screen when in the picture-in-picture mode.
- 23 TV/DTV/SAT: Switches the mode among TV, DTV and SAT.
- 24 CH RETURN: Returns to the previous channel.
- **25** +/ -: Sets the volume.
- **26** W: Mutes the sound.
- **27 F TOOLS:** Displays the TOOLS Menu.
- 28 TETURN: Restores the previous menu screen.
- 29 Selects the Teletext mode (all TV image, all TEXT image, TV/TEXT image).
- 30 Ei: Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.
- 31 (F): Selects the screen size.
- **32 SELECT:** Switches the selection among TV, STB, DVD/DVR, and VCR, so that you can control other connected equipment, using the supplied remote control unit.



• When using the remote control unit, point it at the display panel.

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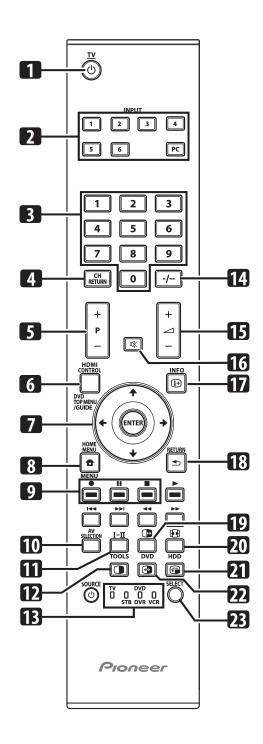
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■ Remote Control Unit (for WA5 type)

This section describes the functions of the buttons available when the TV mode has been selected by using the **SELECT** button.



- 1 **b**: Turns on the power to the flat screen TV or places it into the standby mode.
- 2 INPUT: Selects an input source ("INPUT 1", "INPUT 2", "INPUT 3", "INPUT 4", "INPUT 5", "INPUT 6" or "PC")
- **0 to 9:** TV/External input mode: Selects a channel. Turns the power on when the STANDBY indicator lights red.
- **4 CH RETURN:** Returns to the previously selected channel.
- **5 P+/P-:** TV/External input mode: Selects a channel.
- **6 HDMI CONTROL:** Displays the HDMI Control menu.
- 7 ↑/↓/←/→: Selects a desired item on the setting screen.
- 8 HOME MENU: TV/External Input mode: Displays the HOME MENU screen.
- 9 •/II/I: Used when operating the Home Gallery function.
- **10 AV SELECTION:** Selects audio and video settings. (AV source: OPTIMUM, STANDARD, DYNAMIC, MOVIE, GAME, SPORT, USER. PC source: STANDARD, USER.)
- 11 **I**-**II**: Sets the sound multiplex mode.

ENTER: Executes a command.

- 12 : Press to select 2-screen, picture in picture or single screen mode.
- **13 TV, STB, DVD/DVR, VCR:** These indicators show the current selection and status when you control other connected equipment, using the supplied remote control unit.
- 14 -/--: Executes a channel selection.
- 15 ____ +/___ -: Sets the volume.
- 16 : Mutes the sound.
- 17 (in INFO: TV/External input mode: Displays the channel information.
- 18 **SETURN:** Restores the previous menu screen.
- 19 (:TV/External input mode: Freezes a frame from a moving image. Press again to cancel the function.
- **20** TV/External input mode: Selects the screen size.
- 21 : Moves the position of the sub screen when in picture in picture mode.

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- 22 : Swaps the main and sub screens when in picture in picture or 2-screen mode.
- **23 SELECT:** Switches the selection among TV, STB, DVD/DVR, and VCR, so that you can control other connected equipment, using the supplied remote control unit.



• When using the remote control unit, point it at the display.

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3. BASIC ITEMS FOR SERVICE 3.1 CHECK POINTS AFTER SERVICING

Items to be checked after repair (PDP)

To ensure the quality of the product after repair, check the recommended items shown below:

No.	Procedures	Item to be checked		
1	Check if all the symptoms pointed out by the customer have been addressed.	The symptoms in question must not be reproduced.		
2	Connect the peripheral equipment.	Connect all external peripheral equipment as originally connected and check if the connections are correct.		
3	Check the video and audio.	Tune in to the stations that the customer would normally receive and check if video and audio are normal.		
4	Check the buttons and controls.	Use the buttons and controls on the remote control unit and main unit and check if they operate properly.		
5	Check the cabinet.	Check for any scratches or dirt that have been made or attached on the cabinet after receiving the product for repair.		

See the table below for the items to be checked regarding video and audio:

Item to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

Cleaning



Name	Part No.	Remarks		
Cleaning paper	GED-008	Used to fan cleaning. Refer to "9.6 CHASSIS SECTION (1/2)".		

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Quick Reference upon Service Visit 1 Notes, PD/SD diagnosis, and methods for various settings

Notes when visiting for service

1. Notes when disassembling/reassembling

1) Rear case

When reassembling the rear case, the screws must be tightened in a specific order. Be careful not to tighten them in the wrong order forcibly. For details, see "Rear Case" in "7. DISASSEMBLY".

2 Attaching screws for the HDMI and system cable terminals When attaching the HDMI and system cable terminals after replacing the Assembly, secure the terminals manually with a screwdriver, but not with an electric screwdriver.

If you tighten the screws too tightly with an electric screwdriver, the screw heads may be damaged, in which case the screws cannot be untightened/tightened any more.

2. On parts replacement

1) How to discharge before replacing the Assys

A charge of significant voltage remains in the Plasma Panel even after the power is turned off. Safely discharge the panel before replacement of parts, in either manner indicated below:

A: Let the panel sit at least for 3 minutes after the power is turned off. B: Turn the Large Signal System off before the power is turned off then, after 1 minute, turn the power off.

For details, see "5.6 [1] PANEL DRIVE-POWER ON/OFF FUNCTION"

2 On the settings after replacement of the Assys Some boards need settings made after replacement of the Assys. For details, see "8. EACH SETTING AND ADJUSTMENT".

3. On various settings

1) Setting in Factory mode

After a Mask indication into the panel is performed, be sure to set the Mask setting to "OFF" then exit Factory mode.

	PD	SD			
No. of LEDs flashing	MR	Panel	No. of LEDs flashing	MR	
Red 1	MR_POWER	SQ_LSI	Blue 1		
	Panel	Module Device	Blue 2		
Red 2	POWER	communication			
Red 3	SCAN	DIGITAL-RST2	Blue 3		
Red 4	SCN-5V	Panel temperature	Blue 4		
Red 6	Y-DCDC	Audio	Blue 5	Audio (MSP)	
Red 7	Y-SUS	Module microcomputer communication	Blue 6		
Red 8	ADRS		Blue 7	Main 3-wire serial communication	
Red 10	X-DCDC	Panel main IIC	Blue 8	Main IIC communication	
Red 11	X-SUS	communication			
Red 12	DIG-DCDC		Blue 9	Main microcomputer communication	
Red 15	UNKNOWN	FAN	Blue 10	FAN	
		Unit high temperature	Blue 11	Unit high temperature	
			Blue 12	D-TUNER communication	
		DC-IN Blue 13 F		RST2/RST4	
		Panel main EEPROM	Blue 15	Main EEPROM	
	Special LED P			Subcategory confirmation	
l——	Panel	MR		procedure	
PD (2-15)	B R •••	PD (1) B R O If the DISPLAY key is pinguring shutdown, the or			

Panel			MR			F	oro	ce	
PD (2-15)	B R ••		•••	PD (1)	B R • •	•	Πc	f the	ng
SD (1-15)	B ••		•••	SD (7-15)	B R O		Ι⊢	SD	S
System failure	B =	-	-	Standalone operation (MRMS01)	B R	_			1 2
MR on standby Rewriting of	(Red	LEI	D lit)	Rewriting of softwa (PC)	B R	••••			3
software (PC)	R •	•••	•••	Rewriting of softwa (USB)	B R			8	5 6
BACKUP	н			After rewriting is comp fully, the orange LED					7 8
For special patterns described here, see				Rewriting of software failed (USB)	R O	<u></u>	1	13	9 1 2
Commands for s	hifting	j bet	ween	standalone and syste	em oper	ations		Othe	er S
Panel			MR				or o		
To Standalone operation: SYSS00			To Standalone operation: MRMS01			۱۴	0		
To System operation: SYSS01			To System operation: MRMS00			1			
Note: After issuing a command, unplug then again plug									

	pro	procedure						
	duri	If the DISPLAY key is pressed during shutdown, the orange LED flashes. (MR only)						
	SD	SI	D Subcategory					
٦		1	Tuner 1					
		2	MSP/MAP					
٦		3	AV Switch					
		4	RGB Switch					
٦	8	5	Main VDEC					
١		6	VDEC-SDRAM					
1		7	AD/PLL					
١		8	HDMI					
1		9	Display Port Tx					
1	13		RST2					
4		2	2 RST4					
		Other SD main categories						
٦		have subcategories.						

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		n314		
nds for shifting between	Other SD main categories			
Panel	MR		categories. ls, see 5.4[2].	
lalone operation: SYSS00	To Standalone operation: MRMS01	. o. dota		-
em operation: SYSS01	To System operation: MRMS00			
After issuing a comma				

How to locate several items on the Factory menu

: Item on the Factory menu : Key on the remote control unit Screen indication

1. Confirmation of accumulated power-on time and power-on count Select {INFORMATION} then {HOUR METER}.

(After entering Factory mode, press [♣] four times.)

2. Confirmation of the Power-down and Shutdown histories

① Panel system

PD: Select {PANEL FACTORY} then {POWER DOWN}. (After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [] two times.)
Select {PANEL FACTORY} then {SHUT DOWN}.

(After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [♣] three times.)

② MR section

Select (INFORMATION) then (MAIN NG) (After entering Factory mode, press [♣] two times.)

3 Panel main section

Select {PANEL MAIN FACTORY} then {PM NG INFO}. After entering Factory mode, press [MUTING] twice, then press [ENTER/SET].

3. How to display the Mask indication

Mask indication in the panel side

1. Select [PANEL FACTORY] then [RASTER MASK SETUP].
(After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [] 8 times.)

Press [ENTER/SET], then select a Mask indication, using [♠] or [♣].

Adjustments and Settings after replacement of the Assys (Procedures in Factory mode)

in the AC power cord.

- DIGITAL Assy (Panel): Transfer of backup data
 ① Select {PANEL FACTORY}, {ETC}, then {BACKUP DATA}. (After entering Factory mode, press [MUTING] once, press [ENTER/SET], press [♣] seven times, then
 press [ENTER/SET].)
 - ② Select {TRANSFER}, using [→], then hold [ENTER/SET] pressed for at least 5
 - 3 After transfer of backup data is completed, {ETC} is automatically selected, and the LED on the front panel returns to normal lighting.

2. MAIN BLOCK Assy (MR), MAIN Assy (Panel): Execution of FINAL SETUP.

- SETUP.

 1 Select {INITIALIZE} then {FINAL SETUP}, then press [ENTER/SET]. (After entering Factory mode, press [MUTING] three times, then press [♣] four times.)

 2 Select "YES", using [♣]. Then hold [ENTER/SET] pressed for at least 5 seconds.

 3 After "FINAL SETUP IS COMPLETE" is displayed on the screen, turn the POWER
- switch of the main unit off.

3. POWER SUPPLY Unit (Panel): Clearance of the accumulated power-on

- count and maximum temperature value

 ① Select {PANEL FACTORY}, {ETC}, then {P COUNT INFO}. (After entering Factory mode, press [MUTING] once, press [ENTER/SET], press [♣] seven times, press
- [ENTER/SET], then press [♣] six times.)

 ② Press [♣] to select "CLEAR". Hold [ENTER/SET] pressed for at least 5 seconds.

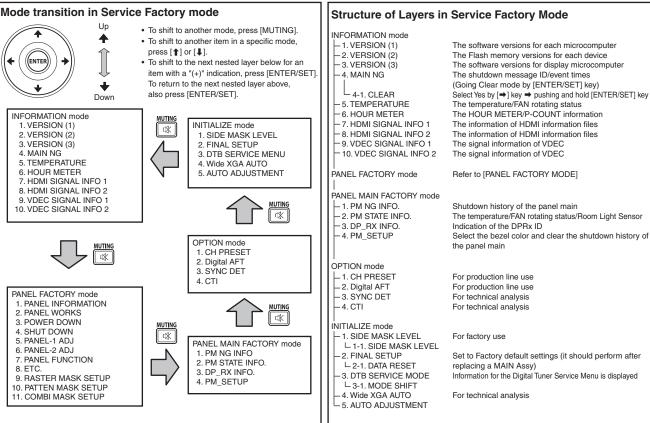
 After clearance is completed, "ETC" is automatically selected. Clear the maximum temperature value (MAX TEMP) in the same manner.

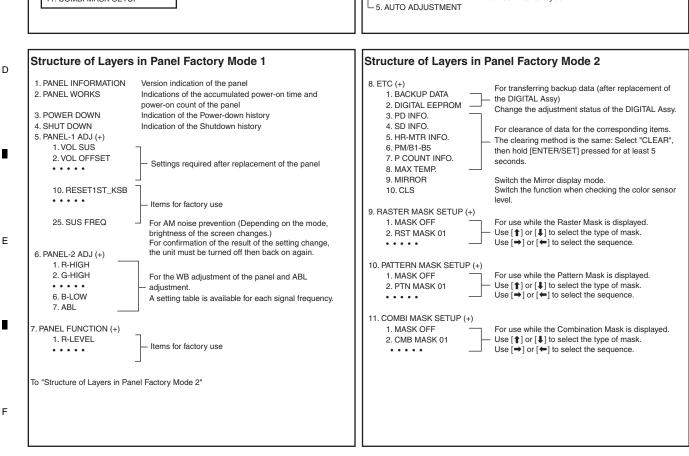
4. Other Assys (panel): Clearance of the maximum temperature value

- ① Select {PANEL FACTORY}, {ETC}, then {MAX TEMP}. (After entering Factory mode, press [MUTING] once, press [ENTER], press [♣] seven times, press [ENTER/SET], then press [1] seven times.)
- ② Press [→] to select "CLEAR". Hold [ENTER/SET] pressed for at least 5 seconds After clearance is completed, "ETC" is automatically selected.

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Quick Reference upon Service Visit ② Mode transition and structure of layers in Service Factory mode





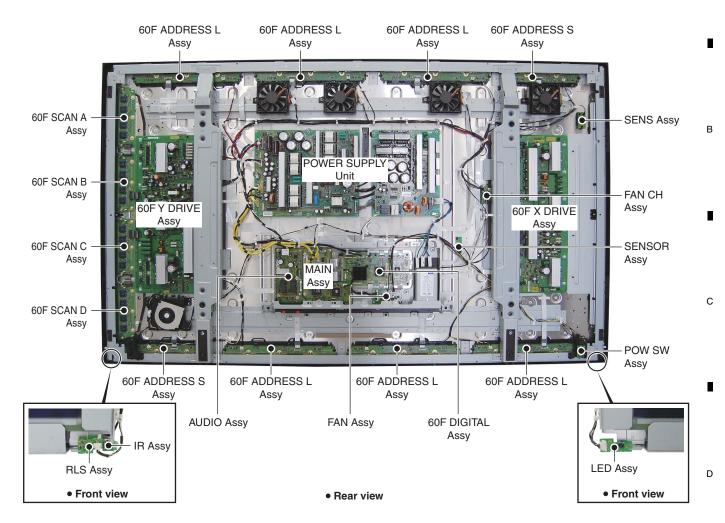
16

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3.3 PCB LOCATIONS

Note: The wiring shown in the photo is different from the actual wiring, because the product in the photo is a prototype. Upon servicing, be sure to restore the original wiring of the unit after repair work.



NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

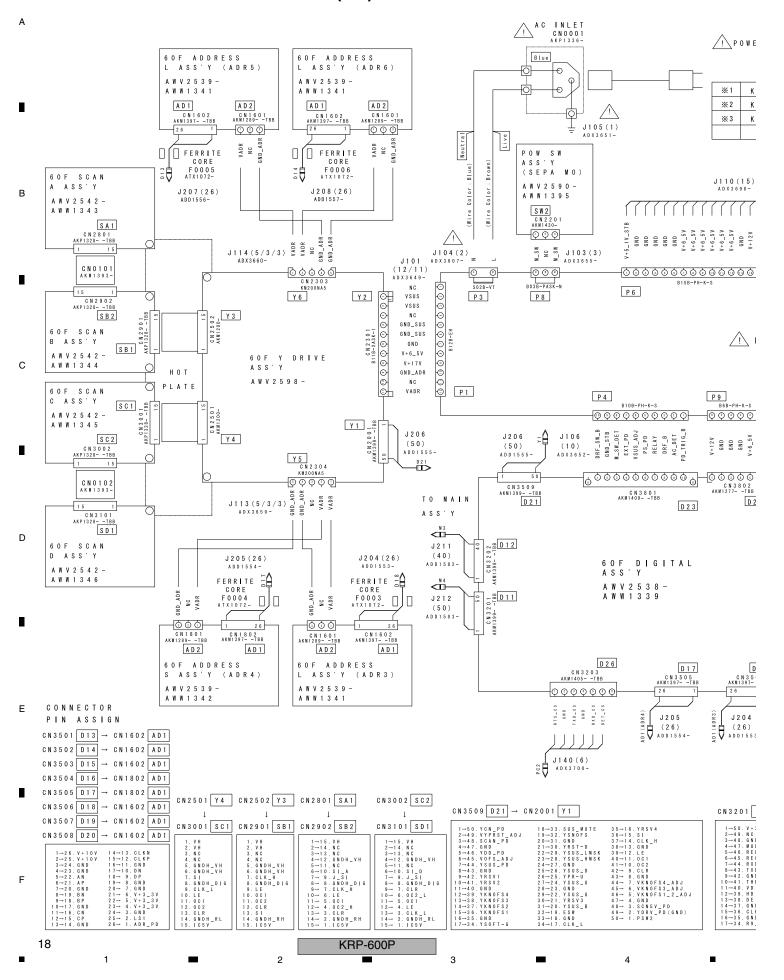
• The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

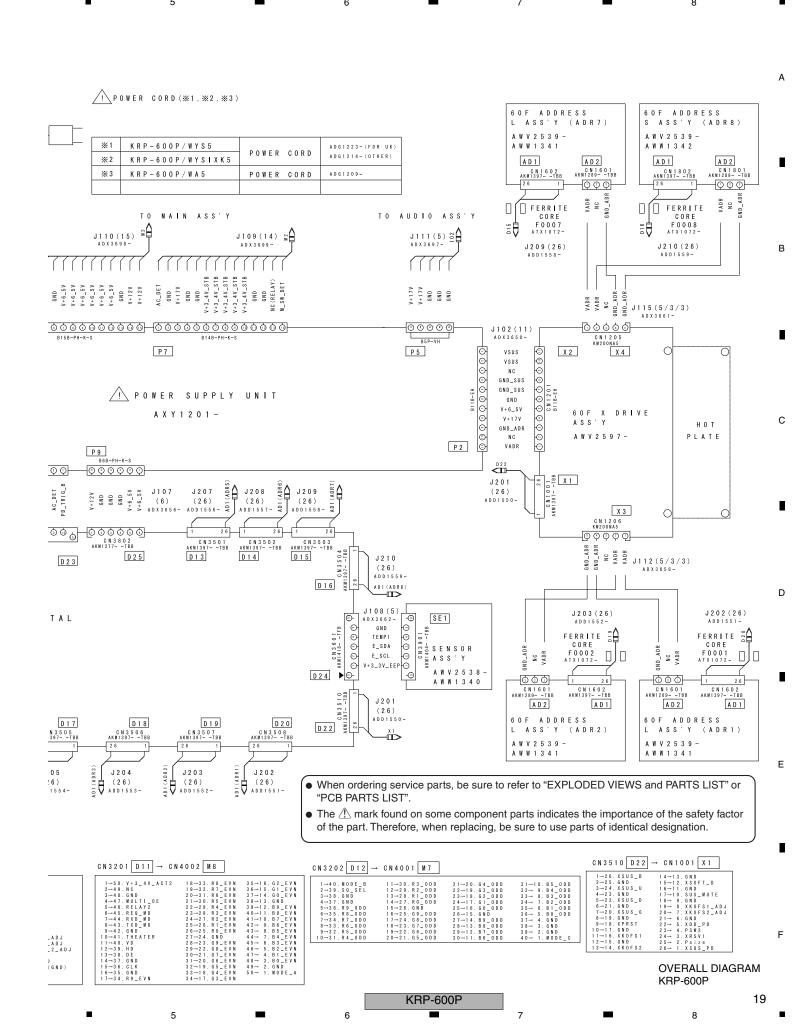
Mark	No. Description	Part No.	Mark No. Description	Part No.
LIST	OF ASSEMBLIES		-	
(PDP	Panel)		(MTB)	
NSP	60F ADDRESS L ASSY	AWW1341	MAIN ASSY	AWW1393
NSP	60F ADDRESS S ASSY	AWW1342	FAN ASSY	AWW1394 E
			POW SW ASSY	AWW1395
NSP	60F SCAN A ASSY	AWW1343	SENS ASSY	AWW1396
	L IC2801 - IC2804	AN16184A	FAN CH ASSY	AWW1397
NSP	60F SCAN B ASSY	AWW1344		
	└─ IC2901 - IC2904	AN16184A	AUDIO ASSY	AWW1398
NSP	60F SCAN C ASSY	AWW1345	LED ASSY	AWW1399
	└─ IC3001 - IC3004	AN16184A	IR ASSY	AWW1400
NSP	60F SCAN D ASSY	AWW1346	RLS ASSY	AWW1401
	└─ IC3101 - IC3104	AN16184A		
			(Power Supply)	
	60F DIGITAL Assy	AWW1339	POWER SUPPLY UNIT	AXY1201
	SENSOR ASSY	AWW1340	_	
			(Service Assy)	F
	60F X DRIVE ASSY	AWV2597	PDP SERVICE ASSY 609FE	AWU1379
	60FY DRIVE ASSY	AWV2598	. 2. 321027.001 00012	,

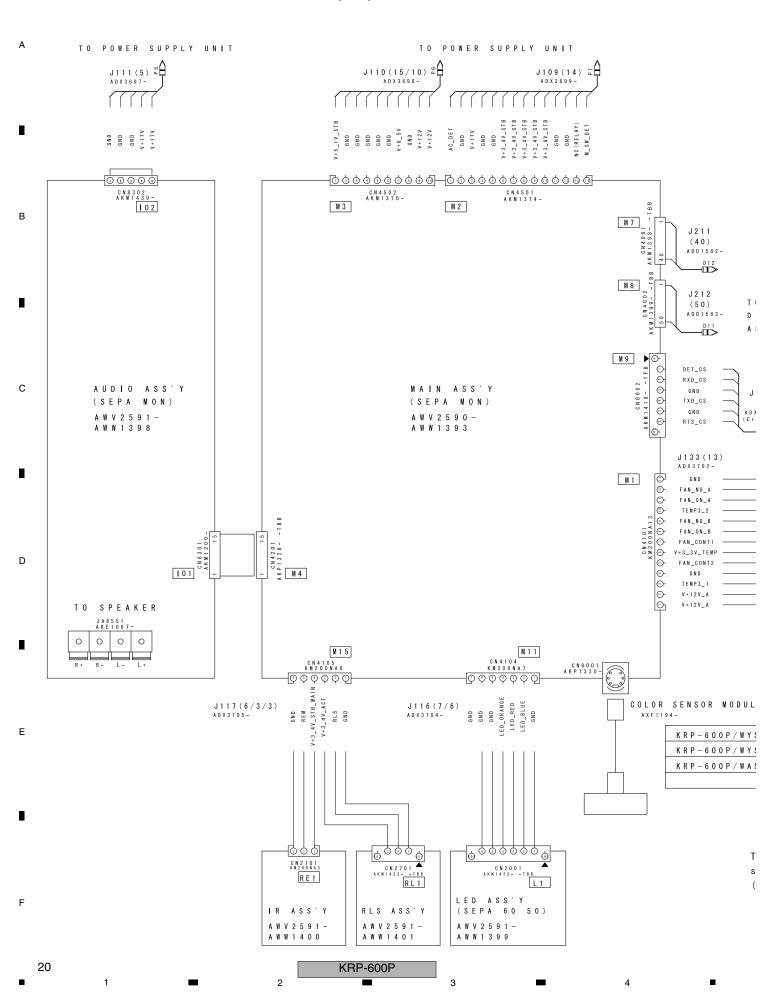
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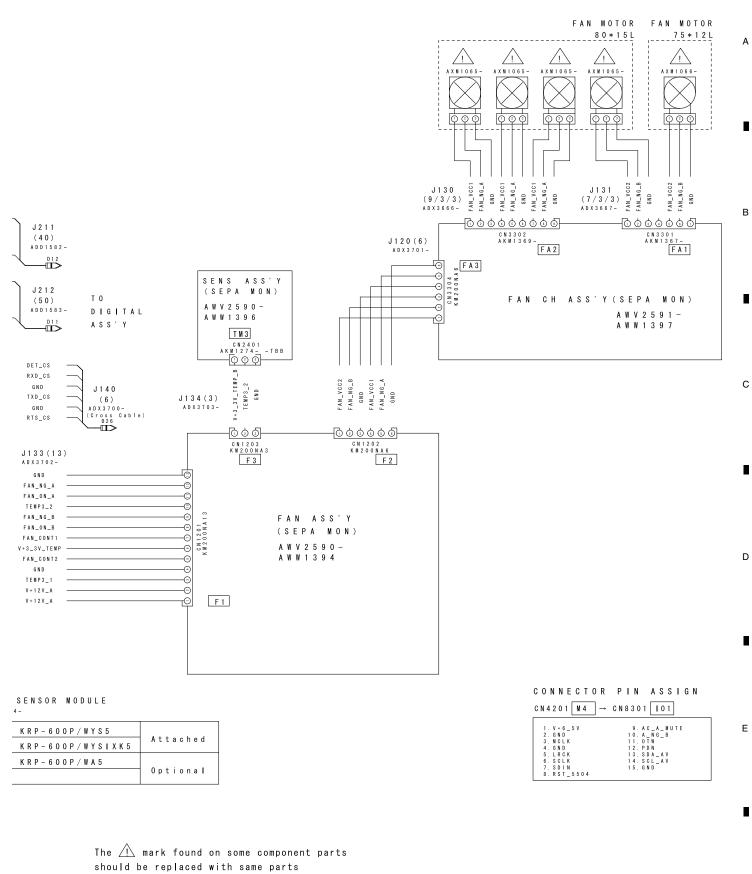
17

4.1 OVERALL WIRING DIAGRAM (1/2)









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(safety regulation authorized) of identical designation.

OVERALL DIAGRAM KRP-600P

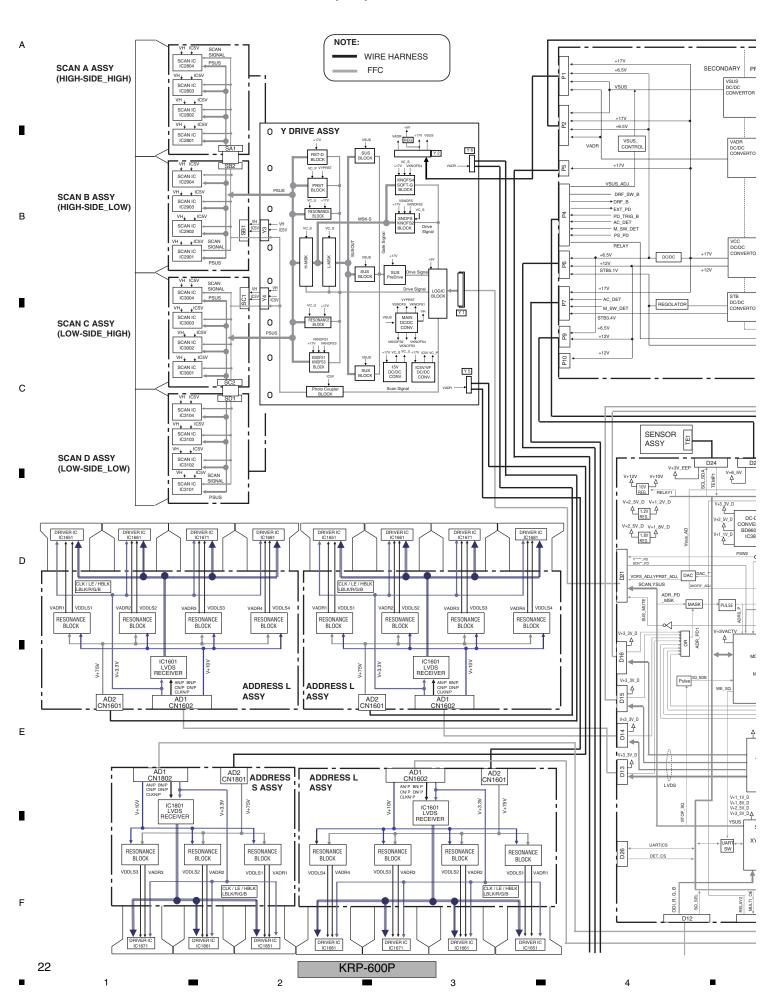
F

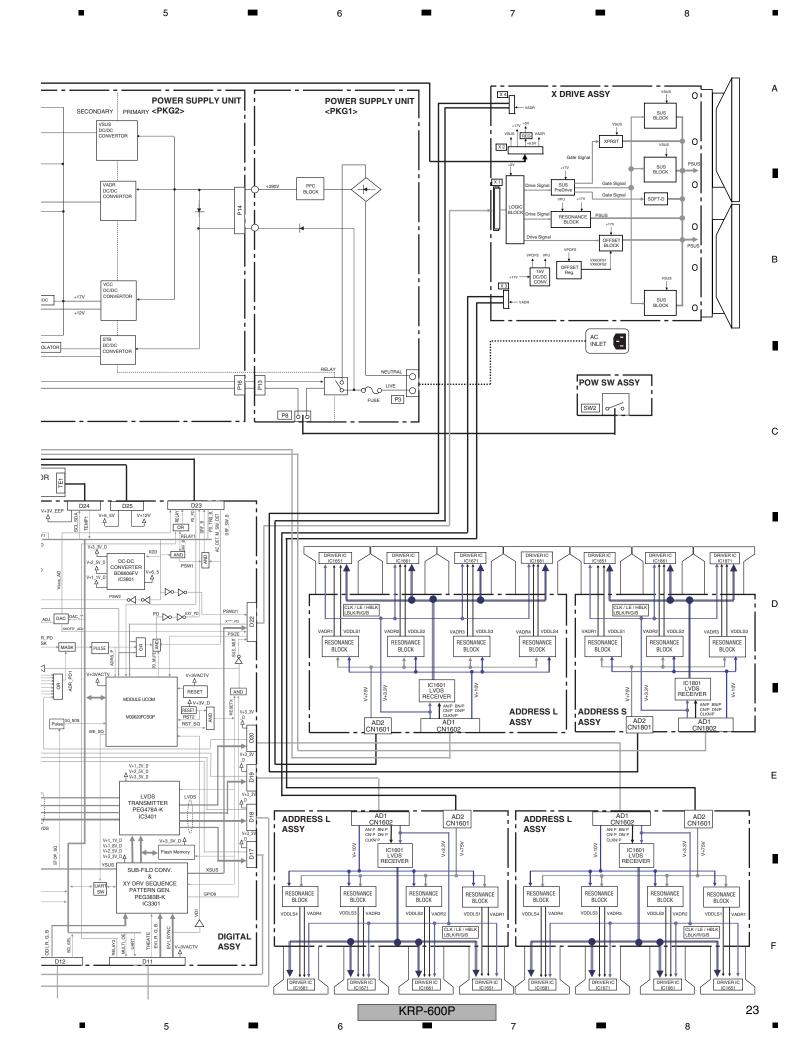
21

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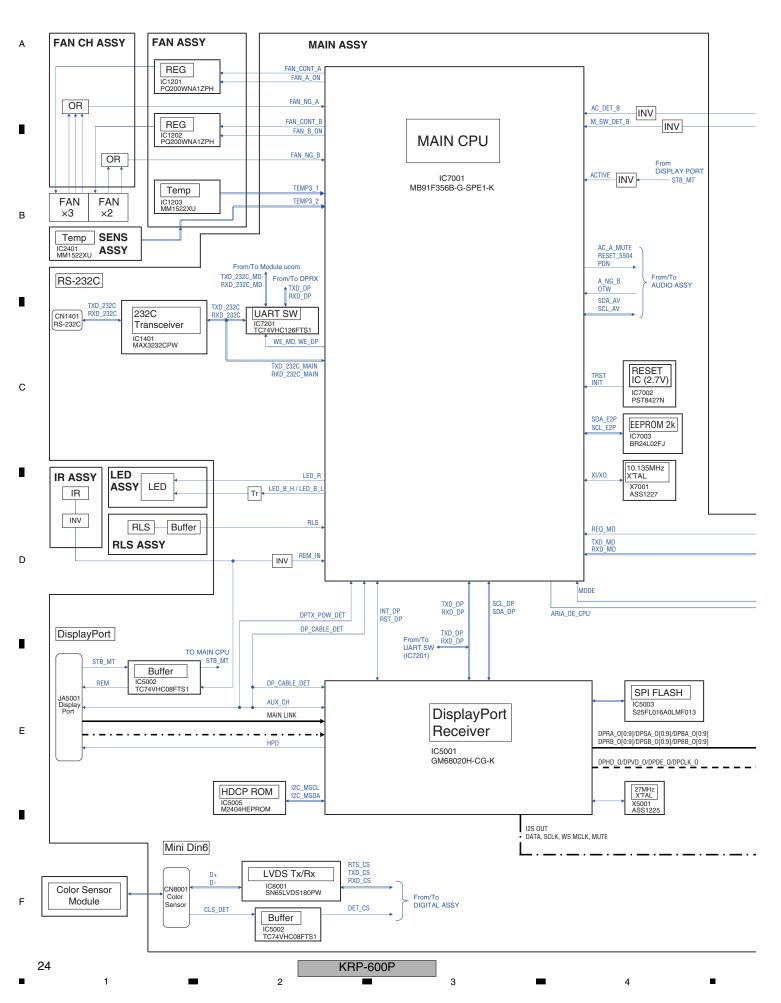
5

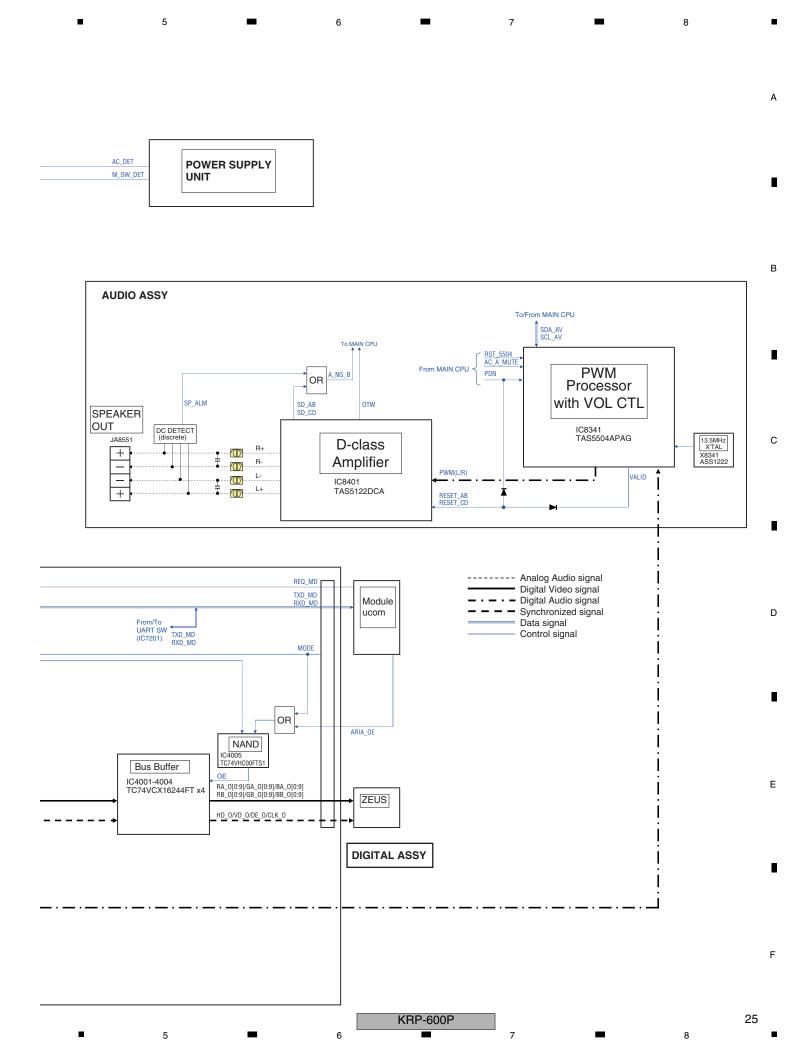
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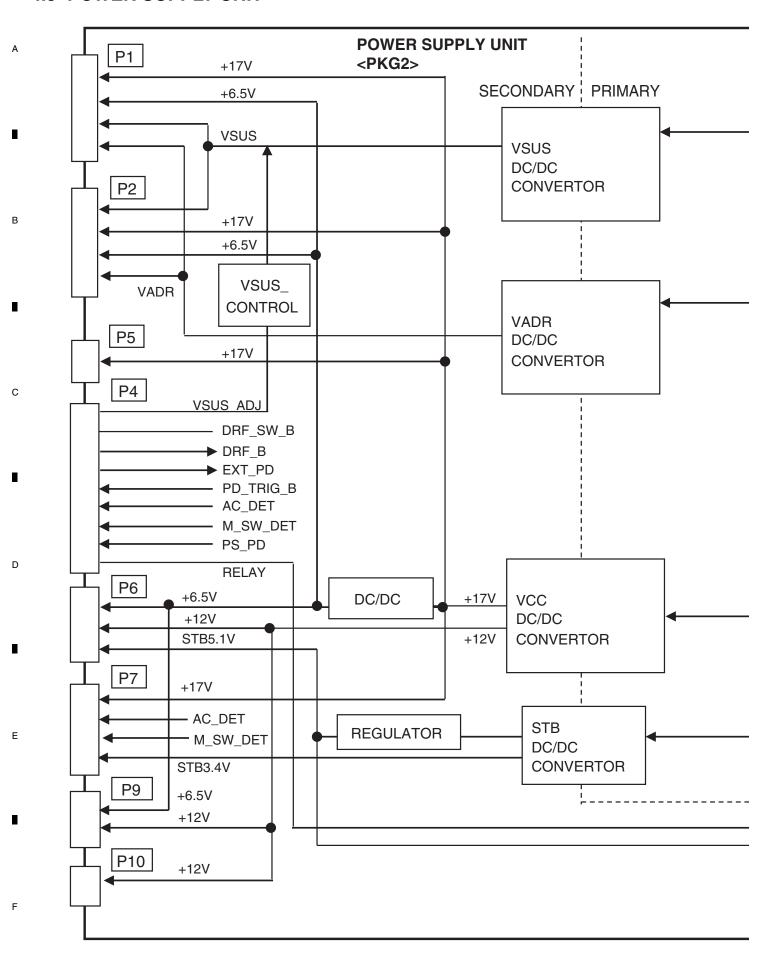


4.4 OVERALL BLOCK DIAGRAM (2/2)



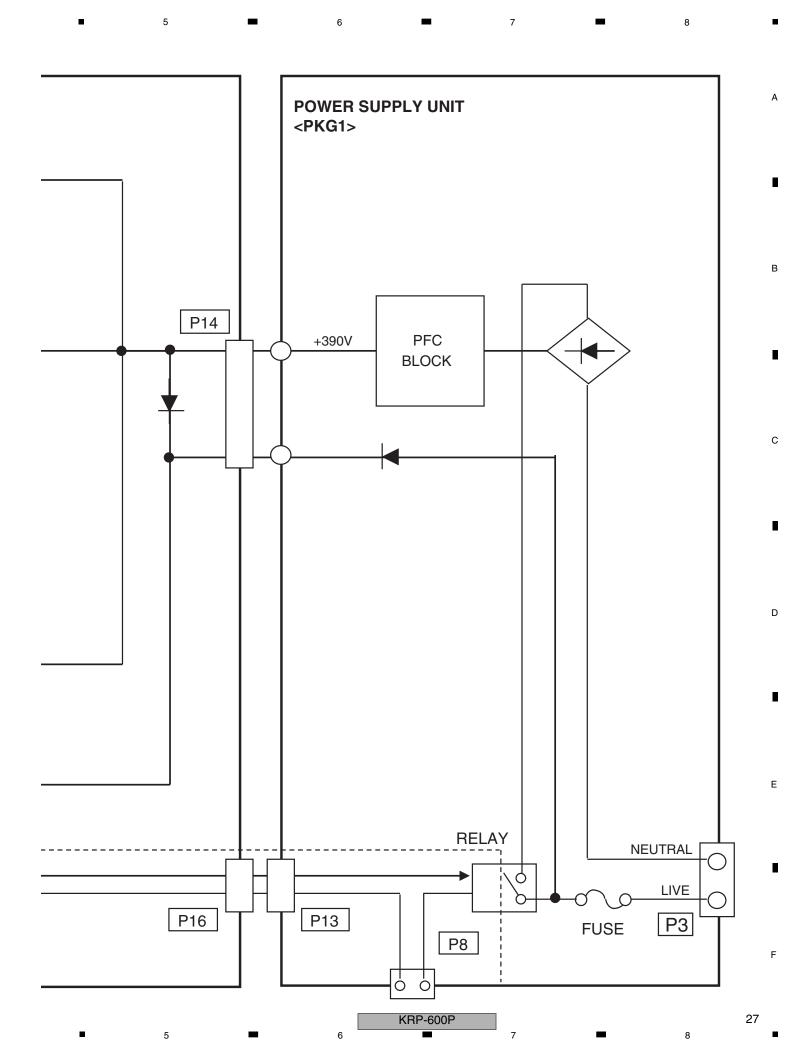


4.5 POWER SUPPLY UNIT



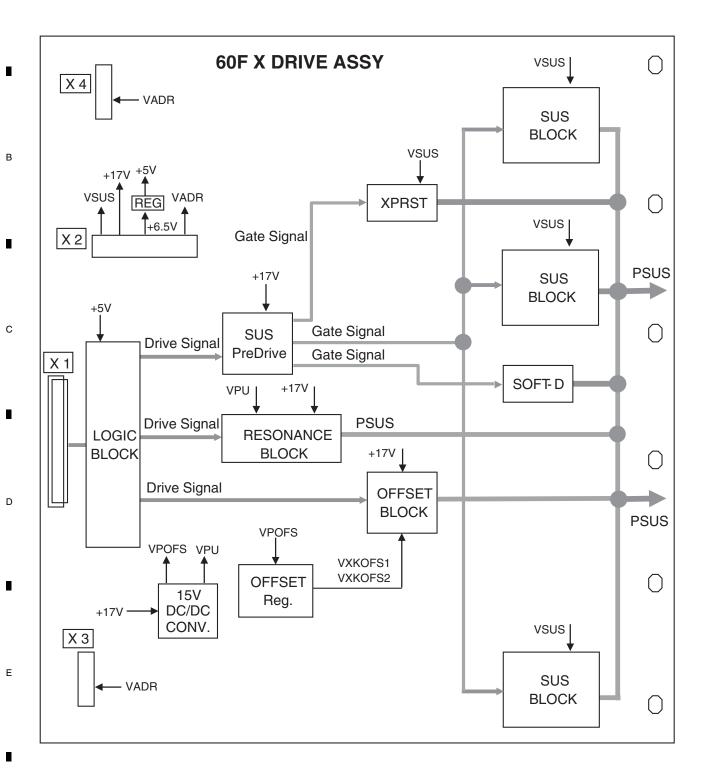
3

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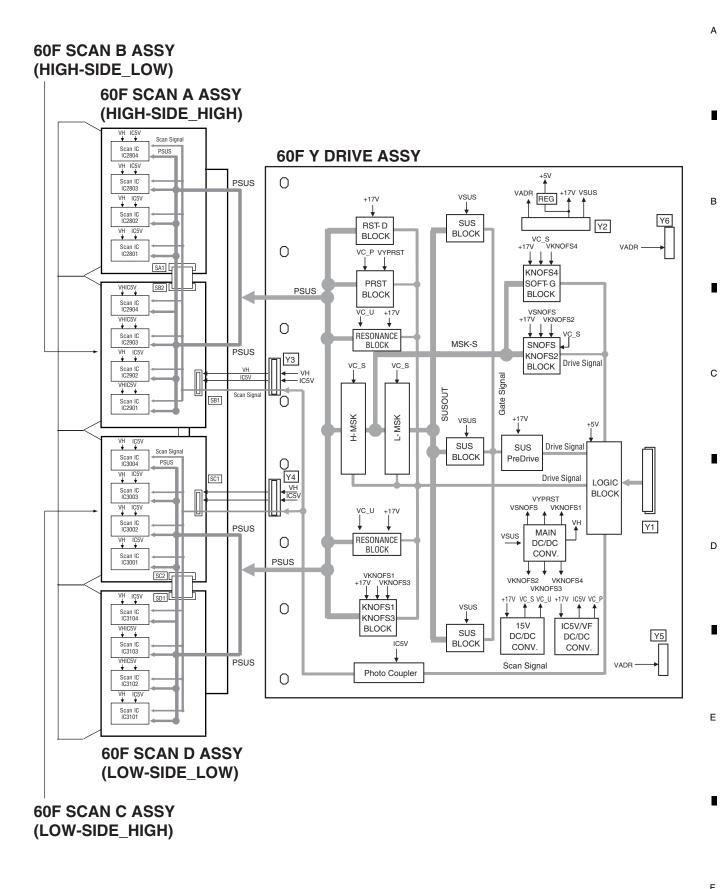
4.6 60F X DRIVE ASSY

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4.7 60F Y DRIVE, 60F SCAN A, B, C and D ASSYS

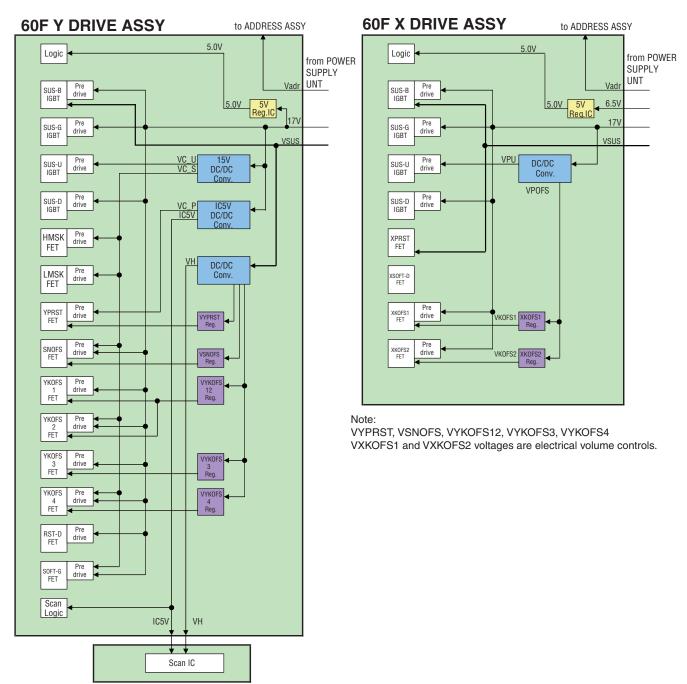


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4.8 POWER SUPPLY BLOCK of 60F X, Y DRIVE and 60F SCAN A, B, C and D ASSYS



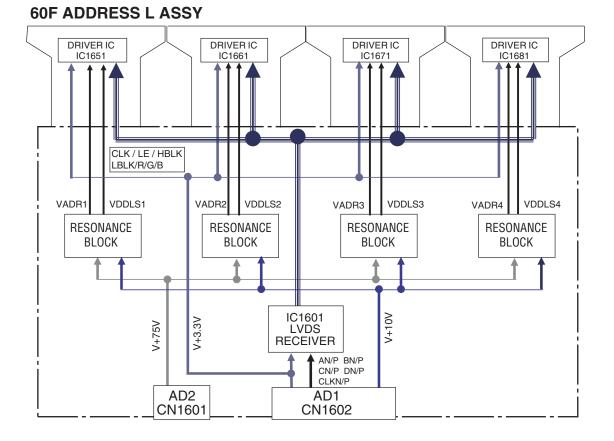
60F SCAN A, B, C and D ASSYS

30

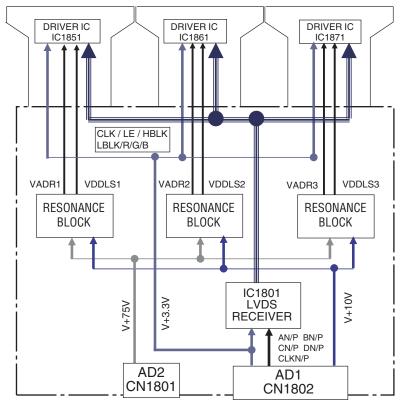
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60F ADDRESS S ASSY



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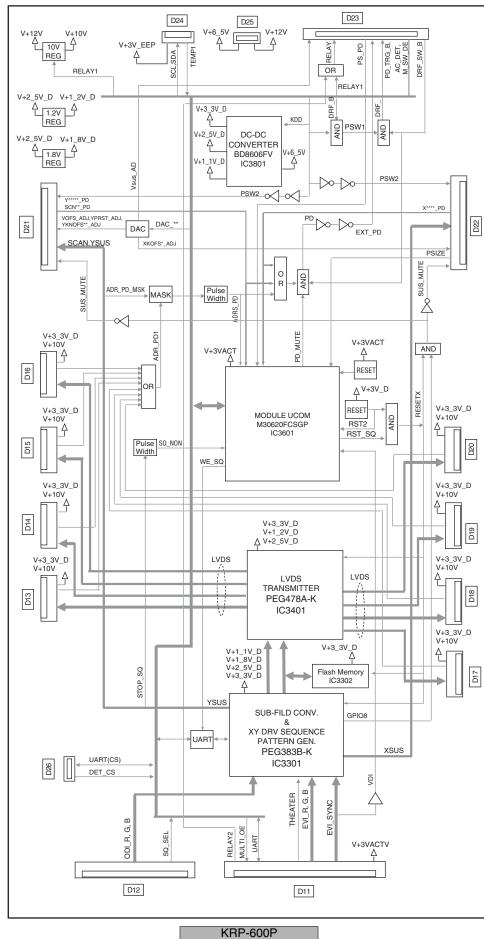
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60F DIGITAL ASSY



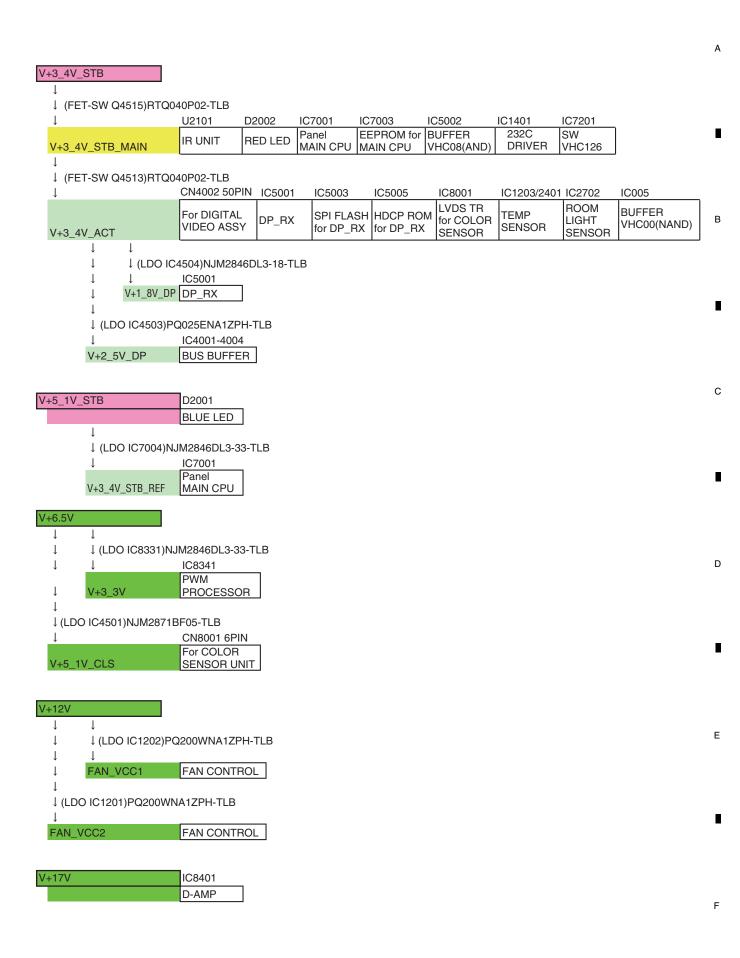
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4.11 POWER SUPPLY BLOCK of MAIN and AUDIO ASSYS



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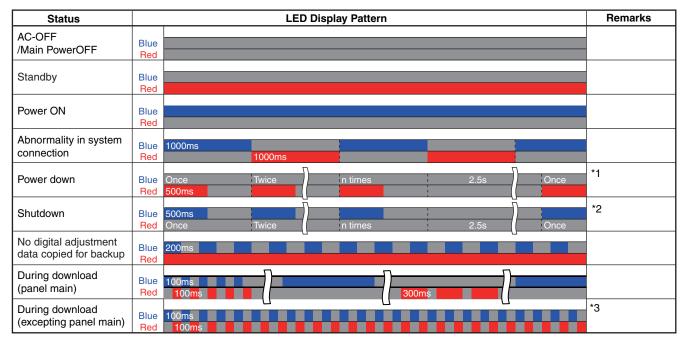
33

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5. DIAGNOSIS **5.1 POWER SUPPLY OPERATION**

[1] LED DISPLAY INFORMATION

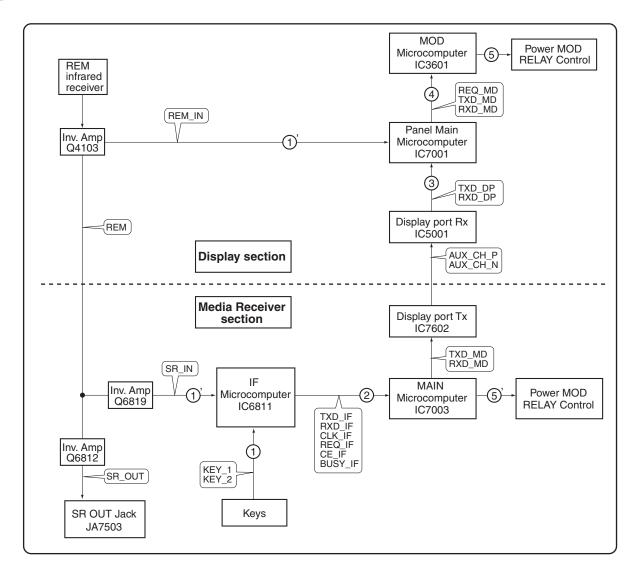
■ LED Pattern



- *1: This LED only flashes when power-down is generated in the display unit. When power-down is generated in the MR, the LED on the MR flashes.
- *2: This LED only flashes when shutdown is generated in the display unit. When shutdown is generated in the MR, the LED on the MR flashes.
- *3: These LEDs only flash during rewriting of software in the display unit. During rewriting of software in the MR, the LEDs on the MR flash.

D

[2] POWER ON SEQUENCE



- ①: The KEY signal is input to the IF microcomputer.
- ①': The remote control signal is input to the IF microcomputer and Panel main microcomputer.
- ②: The IF microcomputer sends the operation data of the remote control unit key to the main microcomputer.
- ③: The main microcomputer issues a startup command (PON) to the panel main microcomputer through DP Tx and DP Rx.
- ④: The panel main microcomputer issues a startup command (PON) to the MOD microcomputer.
- ⑤: The MOD microcomputer controls a MOD relay of the POWER SUPPLY Unit (Display section), then the power is turned on.
- ⑤': The main microcomputer controls a MOD relay of the POWER SUPPLY Unit (Media Receiver section), then the power is turned on.

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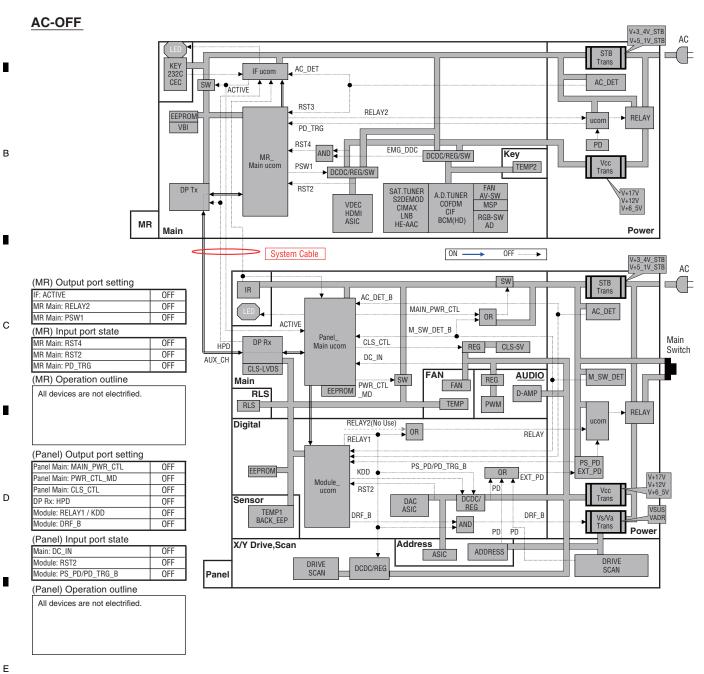
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■ 2 **■** 3 **■** 4

[3] DETAILS OF POWER ON SEQUENCE

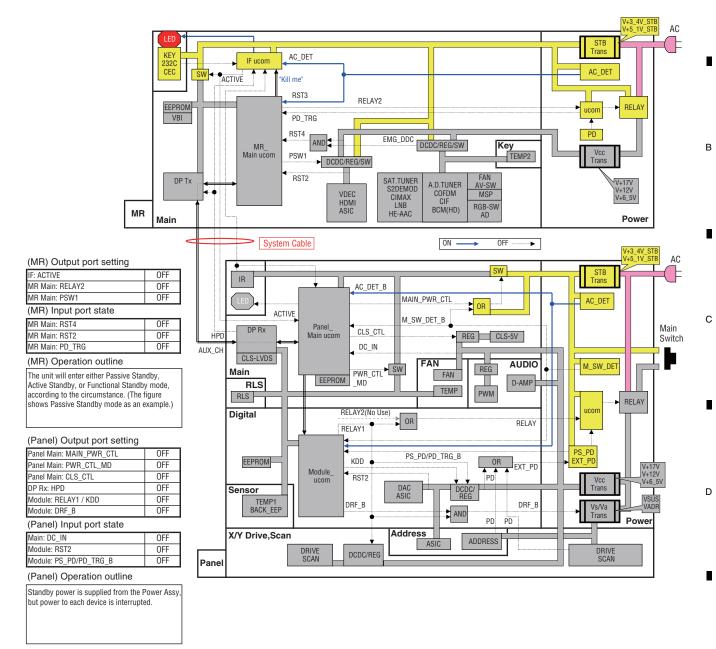


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Panel Main Power OFF



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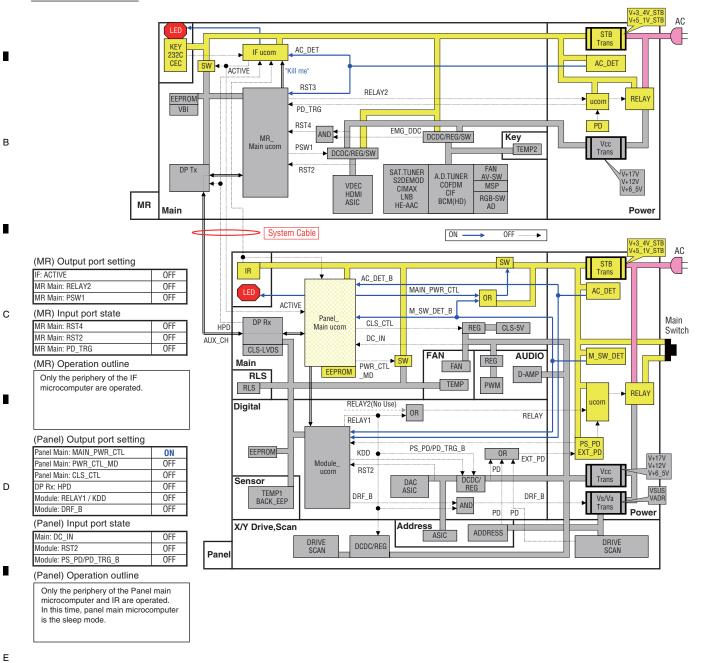
Ε

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Passive Standby

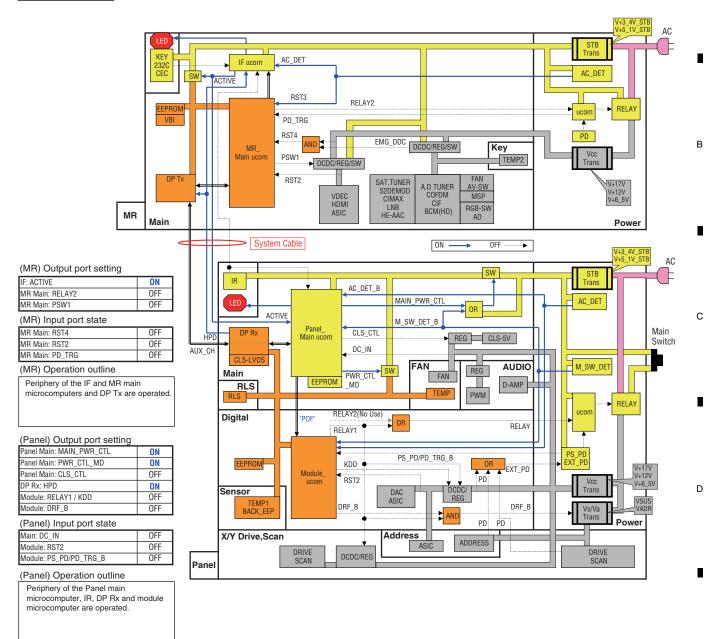
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Active Standby



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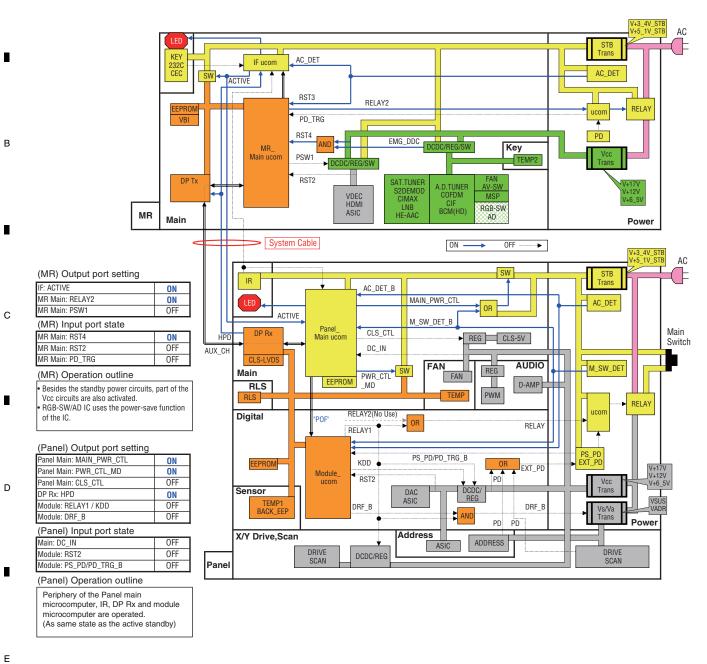
Ε

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1 2 3 4

Function Standby

Α

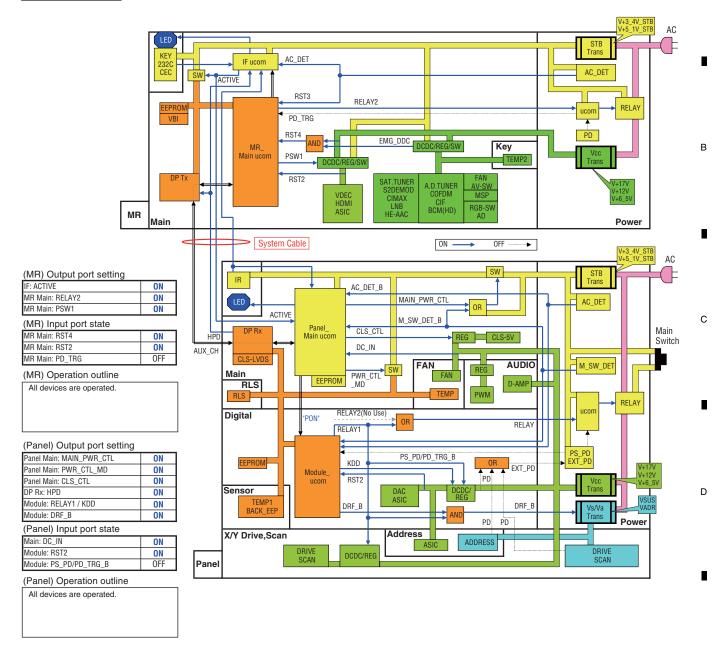


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■ 3 ■ 4

PDP Screen ON



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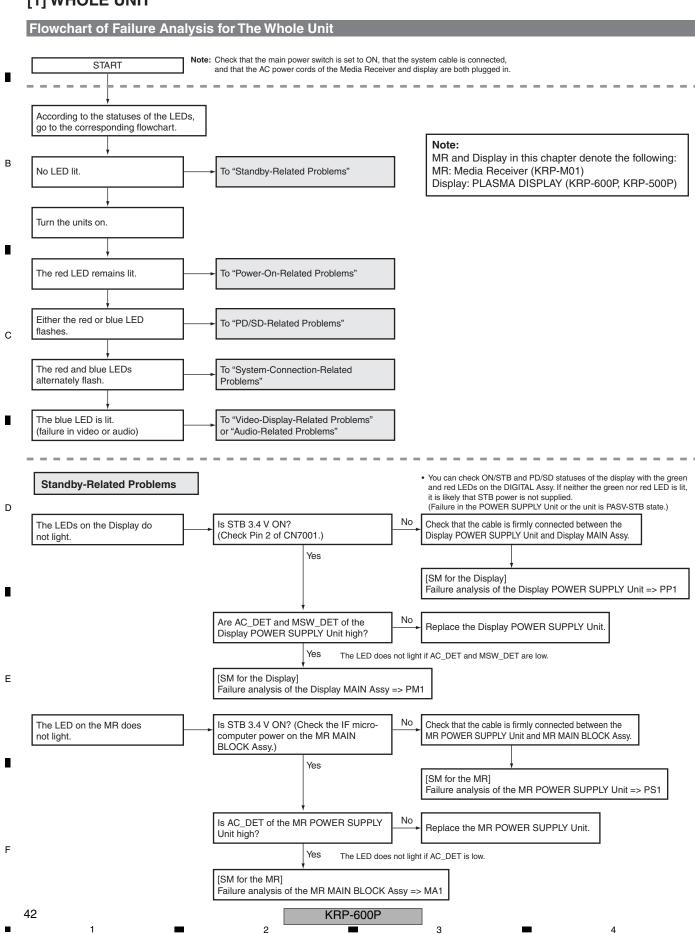
41

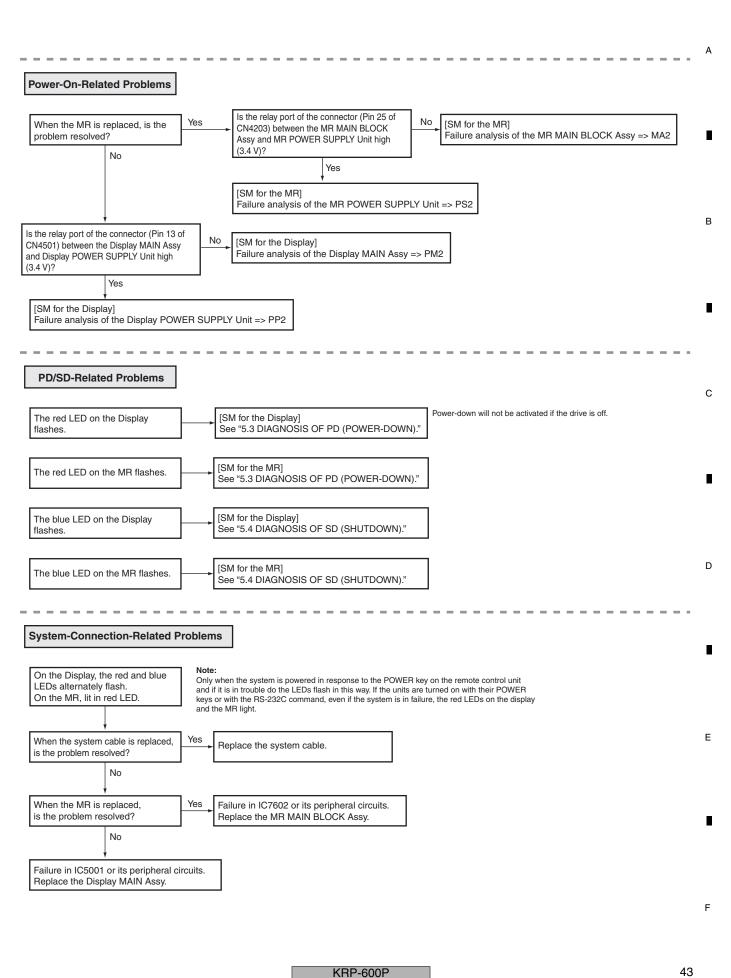
Ε

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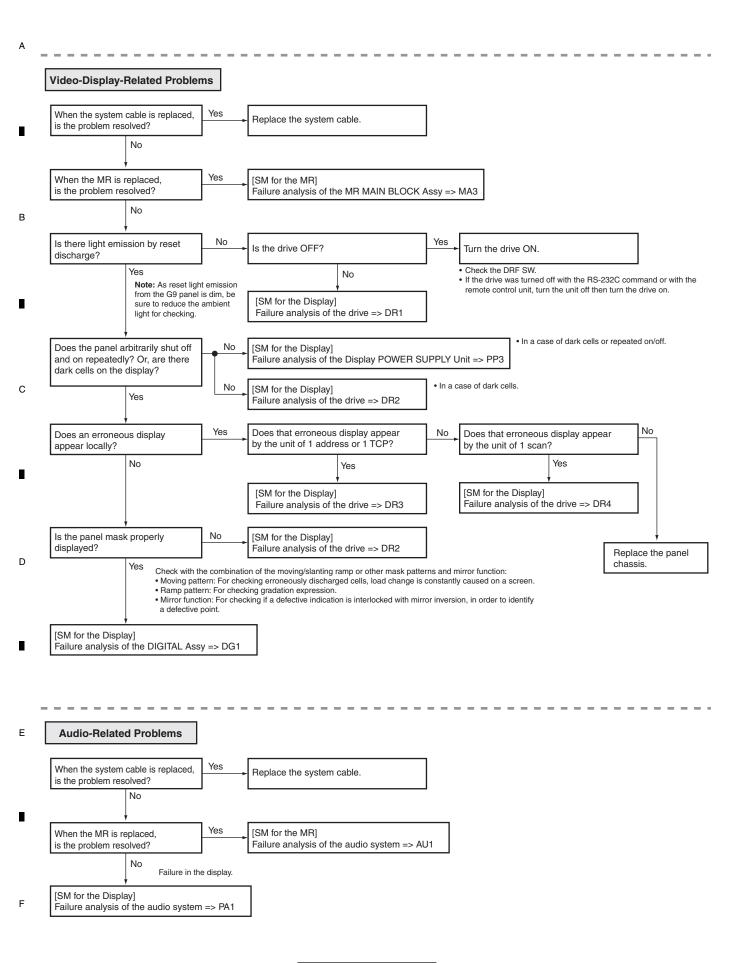
5.2 DIAGNOSIS FLOWCHART OF FAILURE ANALYSIS

[1] WHOLE UNIT





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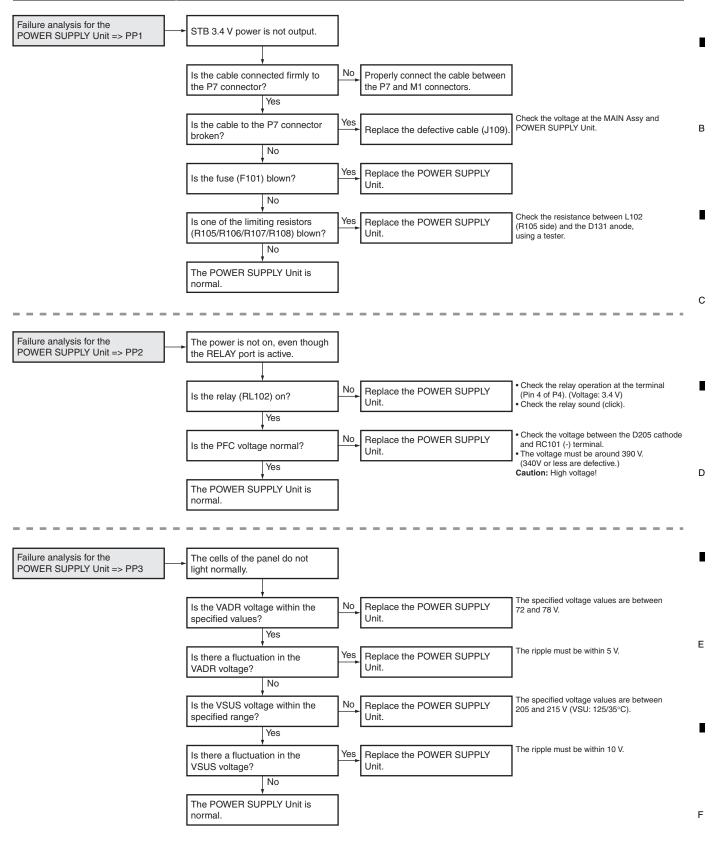
KRP-600P

2

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[2] POWER SUPPLY UNIT

Flowchart of Failure Analysis for The POWER SUPPLY Unit



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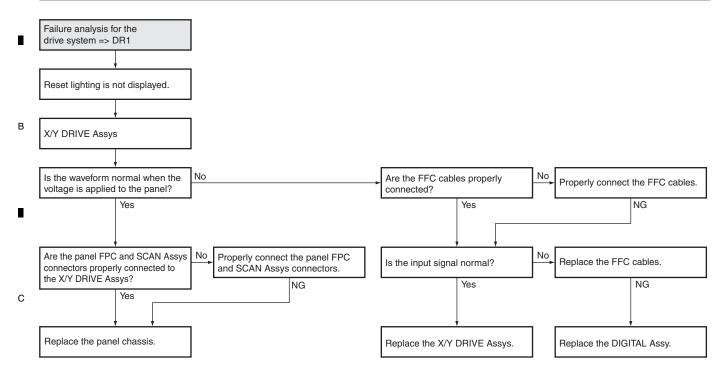
KRP-600P

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■ 3 ■ 4

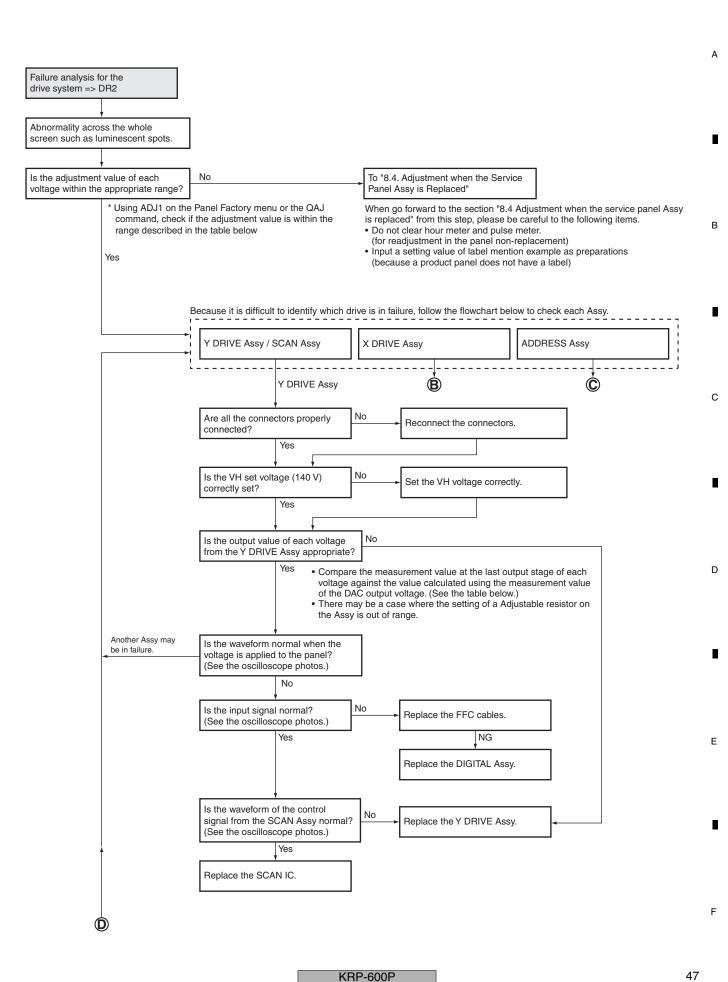
[3] DRIVE ASSY

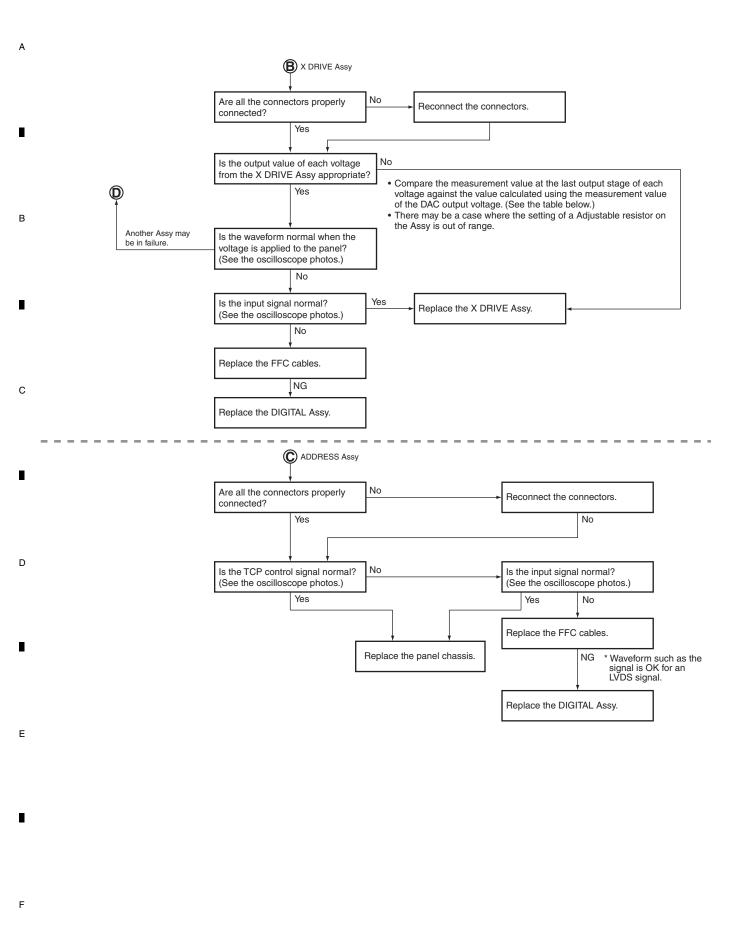
Flowchart of Failure Analysis for The Drive Assy



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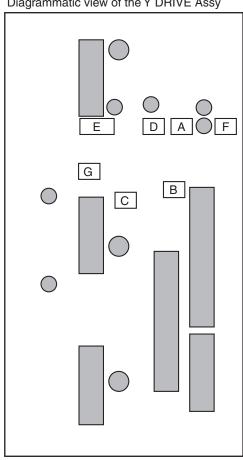
1 =

	Voltage to be Checked (V)	Adjustable Range		surement Point	Computation Formula for Voltage (Absolute Value)		
Assy Name		60-inch	Output at the Last Stage	DAC Output (*2)	Computation Using DAC Output Voltage (V)	Computation Using Adjustment Value (*4)	
	VSNOFS	040 to 085	CN2404 (*1)	Lower side of R2723 (*3)	55.54 - VOFS_ADJ × 13.91	VOF value × 0.18 + 9.6	
	VYRST	001 to 056	CN2401 (*1)	Upper side of R2621 (*3)	VYPRST_ADJ × 62.495 + 75.2	VRP value × 0.81 + 74.4	
Y DRIVE	VKNOFS1_2	054 to 107	CN2405 (*1)	Left side of R2754 (*3)	YVKN0FS1_ADJ × 36.85 + 159.3	(V1F value+VYF value-128)	
						× 0.48 + 158.8	
Assy	VKNOFS3	065 to 117	CN2403 (*1)	Right side of R2757 (*3)	YVKNOFS3_ADJ × 36.85 + 159.3	(V3F value+VYF value-128)	
						× 0.48 + 158.8	
	VKNOFS4	111 to 164	CN2406 (*1)	Right side of R2755 (*3)	YVKNOFS4_ADJ × 36.85 + 159.3	(V4F value+VYF value-128)	
						× 0.48 + 158.8	
X DRIVE	XKOFS1	105	CN1302 (*1)	K1402 (*1)	XKN0FS1_ADJ × 27.3 + 30	VX1 value × 0.35 + 29.7	
Assv	XKOFS2	063	CN1301 (*1)	K1401 (*1)	XKNOFS2 ADJ × 25.0 + 69.8	VX2 value × 0.32 + 69.5	

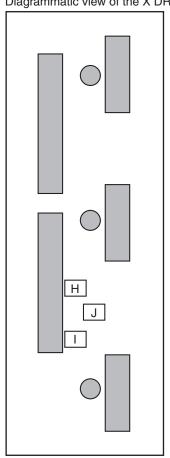
(*1): These parts have not been mounted.
(*2): It is recommended to measure the DAC output voltage with the drive off.
(*3): View when the Assy is mounted on the unit and viewed from the rear.

(*4): The value calculated using an adjustment value may be different from the value measured at the last output stage, because various corrections such as temperature correction are not taken into consideration.

Diagrammatic view of the Y DRIVE Assy



Diagrammatic view of the X DRIVE Assy



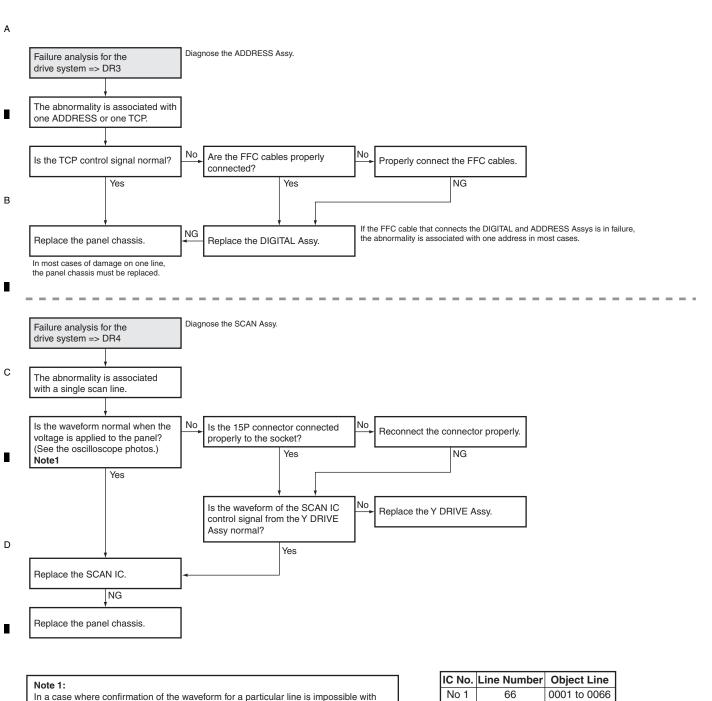
Α	R2754,R2755,R2757
В	R2723
С	R2621
D	CN2405
Ε	CN2403,CN2406
F	CN2404
G	CN2401
Н	K1401
_	K1402
J	CN1301,CN1302

В

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E	Note 1: In a case where confirmation of the waveform for a particular line is impossible with an oscilloscope, it is possible to identify a defective line by lighting a particular line, using the following commands: (The SCAN IC outputting each line refers to the table.) PON FAY MKRS01
_	BSMS01 (Command for reducing phosphor burn-in) \$250000**** (In place of ****, input a figure between 0001 and 1080, which denotes an ordinal number of a particular line.)
	With the above commands, a particular line lights. Be careful to light a line for as short a time as possible, to avoid phosphor burn-in. After a particular line is identified, display an all-white screen to protect the screen from burn-in.

IC No.	Line Number	Object Line
No 1	66	0001 to 0066
No 2	68	0067 to 0134
No 3	68	0135 to 0202
No 4	68	0203 to 0270
No 5	68	0271 to 0338
No 6	68	0339 to 0406
No 7	68	0407 to 0474
No 8	66	0475 to 0540
No 9	66	0541 to 0606
No 10	68	0607 to 0674
No 11	68	0675 to 0742
No 12	68	0743 to 0810
No 13	68	0811 to 0878
No 14	68	0879 to 0946
No 15	68	0947 to 1014
No 16	66	1015 to 1080

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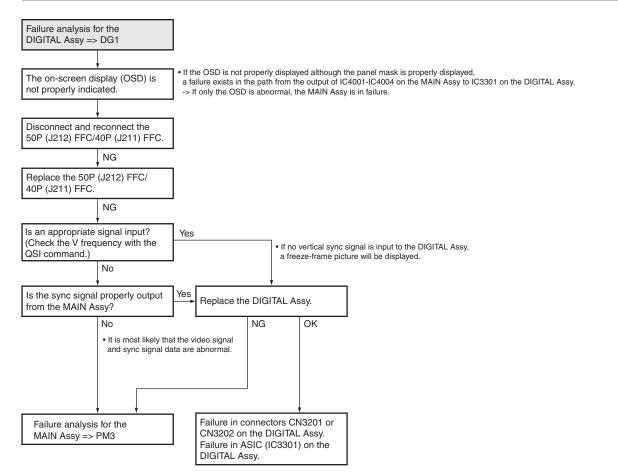
D

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[4] DIGITAL ASSY

Flowchart of Failure Analysis for The DIGITAL Assy



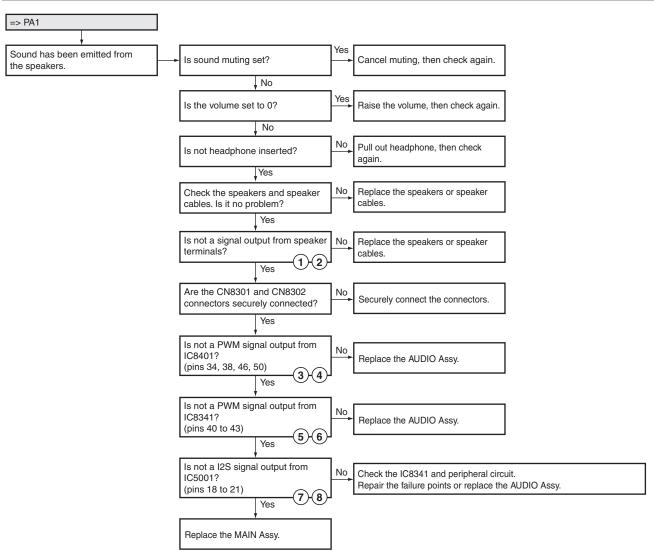
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■ 6 **■** 7

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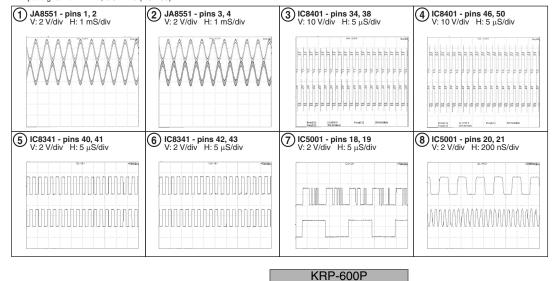
[6] AUDIO SYSTEM

Flowchart of Failure Analysis for The Audio System



Waveforms

Input signal: L/R 1 kHz, 0.5 Vrms (VOL 30)



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В

С

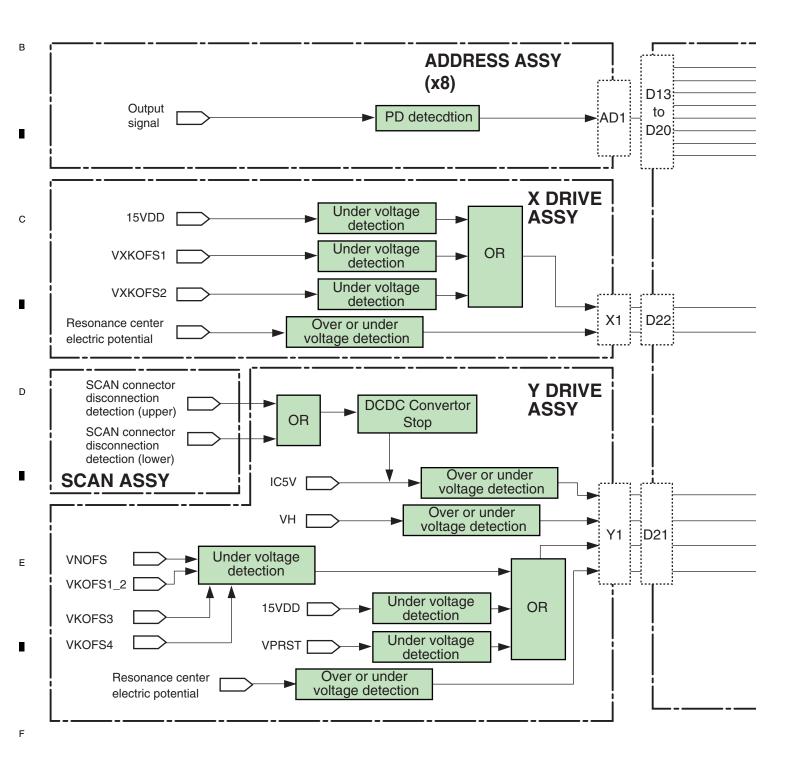
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5.3 DIAGNOSIS OF PD (POWER-DOWN)

[1] BLOCK DIAGRAM OF THE POWER-DOWN SIGNAL

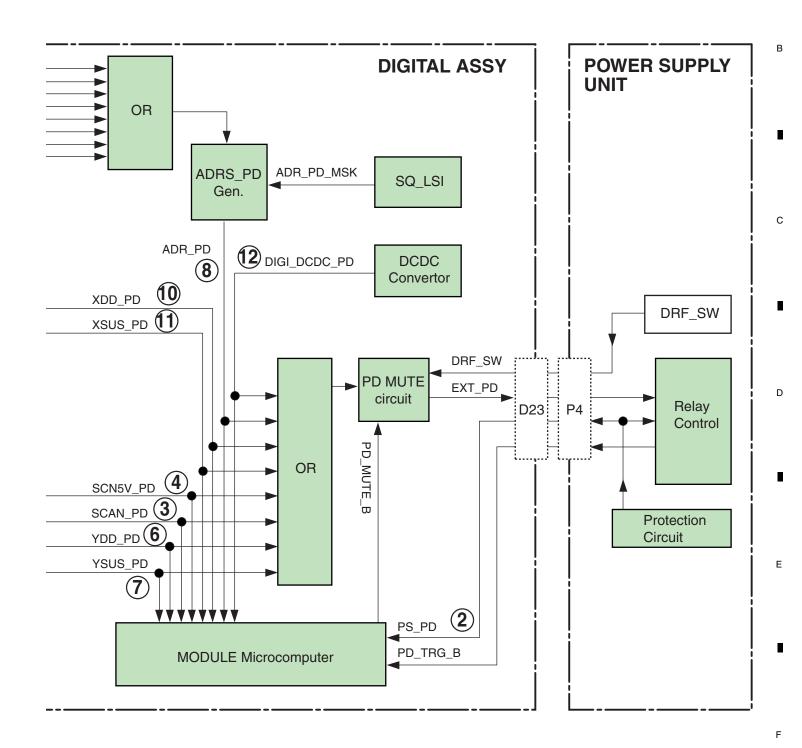


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Note:

The figures ② to ① indicate the number of times the Red LED flashes when power-down occurs in the corresponding route.



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[2] PD (POWER-DOWN) DIAGNOSIS OF FAILURE ANALYSIS

ashing Count	Factory History Display	Defective Assy	PD Outline	Checkpoint									
		POWER SUPPLY	Each PD in the POWER SUPPLY Unit										
2	P-PWR	Unit	Connector disconnection	Connector [P14][P15] (60"only)									
-	F-FVVI	X DRIVE Assy	VSUS under voltage protection	X SUS block									
		Y DRIVE Assy	VSUS under voltage protection	Y SUS block									
		ADDRESS Assy	Connector disconnection	Connector [AD1]									
		DIGITAL Assy	Connector disconnection	Connector [D13] to [D20]									
		SCAN Assy		SCAN IC									
		X DRIVE Assy		X SUS block									
3	SCAN		VH over or under voltage protection	Y SUS block									
	00/11	V DDIVE A		VH DC/DC									
		Y DRIVE Assy		OFFSET block									
			Connector disconnection	Connector [Y1][Y2]									
		DIGITAL Assy	Connector disconnection	Connector [D21]									
		•		Connector [SA1][SB1][SB2][SC1][SC2]									
,	OONEY.	SCAN Assy	Connector disconnection	[SD1]									
4	SCN5V		1051/	SCAN IC									
		Y DRIVE Assy	IC5V over or under voltage protection	IC5V DC/DC									
		1 2111112 71009		Y MSK block									
			VNOFS under voltage protection	NOFS block									
			Tito: O dilaci Tollago protocilori	VNOFS DC/DC									
	Y-DCDC			VPRST regulaotr									
		Y DRIVE Assy	VYPRST under voltage protection	PR-U block									
				15V DC/DC									
			15VDD under voltage protection	SOFT-G block									
6				Y MSK block									
١			VKOES1 2 under voltage protection										
			VKOFS1,2 under voltage protection	KNOFS2 block									
				VYKOFS1, 2 regulaotr									
			VKOFS3 under voltage protection	Y MSK block									
			<u> </u>	VYKOFS3 regulaotr									
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Y MSK block									
			VKOFS4 under voltage protection	KNOFS4 block									
				VYKOFS4 regulaotr									
7	Y-SUS	Y DRIVE Assy	Over or under voltage protection of the center electric potential	Y resonance block									
		DIGITAL Assy	SQ_LSI does not operate	SEQ_LSI (Sync input, output waveform)									
			VADR under voltage protection	Address resonance block									
		ADDRESS Assy	V/IDIT direct voltage protection	TCP									
			Connector disconnection	Connector [AD1][AD2]									
8	ADRS	ADRS	ADRS	ADRS	ADRS	ADRS	ADRS	ADRS	ADRS	DIGITAL Assy	Connector disconnection	Connector [D13] to [D20]	
		Y DRIVE Assy	Connector disconnection	Connector [Y2][Y5][Y6]									
					X DRIVE Assy	Connector disconnection	Connector [X2][X3][X4]						
			Connector disconnection	Connector [X1][X2]									
			15VDD under voltage protection	X SUS block									
				15V DC/DC									
10	X-DCDC	X DRIVE Assy	VXKOFS1 under voltage protection	VXKOFS1 regulaotr									
		•		X OFFSET block									
			VXKOFS2 under voltage protection	VXKOFS2 regulaotr									
				X OFFSET block									
		DIGITAL Assy	Connector disconnection	Connector [D22]									
11	X-SUS	X DRIVE Assy	Over or under voltage protection of the center electric potential	X resonance block									
			3.3V,2.5V,1.1V	DC/DC controlo IC									
12	D-DCDC	DIGITAL Assy	Over voltage/under voltage/overcurrent										
	2 2000		protection	DC/DC block									
	UNKNOW				POWER SUPPLY Unit	Connector disconnection	Connector [P4]						
15	UNKNOW	DIGITAL Assy	Connector disconnection	Connector [D23]									

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Possible Defective Part	Remarks
	The POWER SUPPLY Unit of 60 inches model is a structure of the two par
Q1218,Q1219,Q1221-Q1223,Q1226	VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.
Q2217-Q2224	VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.
each SCAN IC	The abnormality of the SCAN IC
Q1218,Q1219,Q1221-Q1223,Q1226	VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.
Q2217-Q2219,Q2221-Q2223	VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.
IC2601,IC2603,IC2604	
Q2401,Q2402	KNOFS1 and KNOFS3 are short-circuited.
	[SB2][SC1][SC2][SD1] are 60 inches model only.
each SCAN IC Q2764,D2768,R2764	
Q2321-Q2326,Q2328-Q2331,Q2333,Q2334	L MSK is short-circuited.
Q2424,Q2429	NOFS is short-circuited.
D2606,Q2709-Q2711	5 to offert endanted.
Q2604,Q2605,IC2602	
Q2418	PR-U is short-circuited.
Q2662,R2669,L2301,R2335	
Q2427	SOFT-G is short-circuited.
Q2321-Q2326,Q2328-Q2331,Q2333,Q2334	L MSK is short-circuited.
Q2430	KNOFS2 is short-circuited.
Q2702,Q2705,R2714	
Q2321-Q2326,Q2328-Q2331,Q2333,Q2334	L MSK is short-circuited.
Q2703,Q2706,R2715	
Q2321-Q2326,Q2328-Q2331,Q2333,Q2334	L MSK is short-circuited.
Q2432	KNOFS4 is short-circuited.
Q2704,Q2707,R2717 Q2106-Q2109,Q2111,Q2113,D2104-D2107	
IC3301,IC3302	The history of SD1 remains
Q1711,Q1721,Q1731,Q1741,Q1911,Q1921,Q1931,D1711,D1721,D1731,D1741,D1911,D1921,D1931	
TCP (IC1651,IC1661,IC1671,IC1681,IC1851,IC1861,IC1871)	When the TCP is damaged, replace the panel.
	Ref No. of L Assy (6 pieces) and S Assy (2 pieces) are common to
L1201,R1217	
Q1402	
Q1405,Q1406	
Q1302,Q1304	
Q1403,Q1404 Q1301,Q1303	
Q1108,Q1112,Q1116,Q1119	
IC3801	
Q3841,Q3861,Q3881,L3841,L3861,L3881	
R3820,R3848,R3868,R3888	
	EXT_PD line : Open
	EVT DD line : Onen
	EXT_PD line : Open It becomes "UNKNOW" except above-mentioned

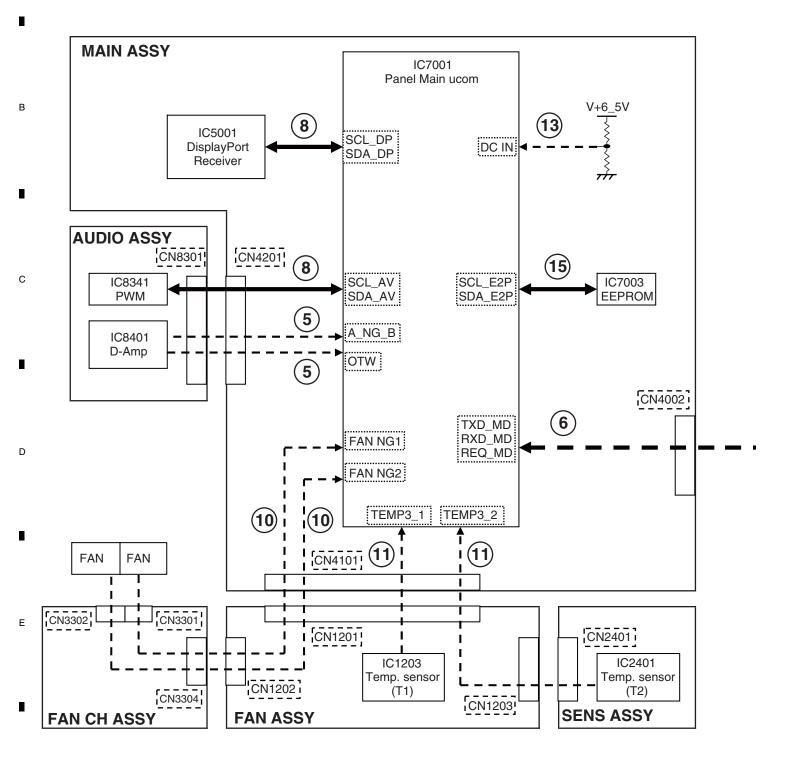
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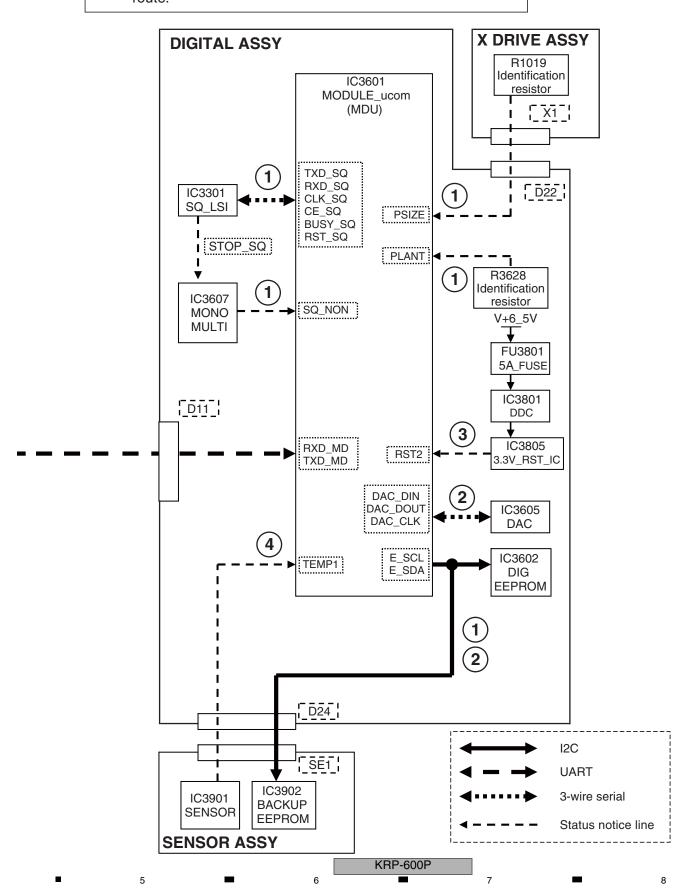
5.4 DIAGNOSIS OF SD (SHUTDOWN)

[1] BLOCK DIAGRAM OF THE SHUTDOWN SIGNAL



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Note : The figures ① to ⑤ indicate the number of times the Blue LED flashes when shut-down occurs in the corresponding route.



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[2] SD (SHUTDOWN) DIAGNOSIS

Frequency of LED Flashing Blue 1	Major Type	Lietalied Type			
		Detailed Type	MAIN SUB		
Dide i	Abnormality in the Sequence LSI	Communication error	SQ-LSI	RTRY	
	Abhormality in the Sequence LSi	Drive stop		SQNO	
		Busy	-	BUSY	
		Version mismatching		VER-HS	
		(hardware, software)			
		Version mismatching (hardware, backup memory)		VER-HM	
		Version mismatching (hardware, DIGITAL memory)	_	VER-HI	
Blue 2	Failure in module microcomputer	Digital EEPROM	MD-DEV	EEPROM	
2.00 2	device communication	Backup EEPROM	1 5	BACKUP	
	dovide communication	DAC IC	1	DAC	
Blue 3	Abnormality in RST2 power decrease	-	RST2	-	
Blue 4	Abnormality in panel temperature	Abnormality in high temperature	TMP-NG	TMP-H	
Dide 4	Abnormanty in paner temperature		- 100		
		Abnormality in low temperature		TMP-L	
Blue 5	Short-circuiting of the speakers D-AMP temperature abnormality	-	AUDIO	AUDIO	
				OTW	
Blue 6	Failure in communication with the	-	MODULE	_	
	module microcomputer				
Blue 8	Failure in IIC communication with	Display Port Rx	PM-IIC	DP-RX	
	the panel main microcomputer	PWM Processor		PWM	
Blue 10	Abnormality in FAN	FAN1	P-FAN	FAN1	
Dide 10	Abhormality IIII AN	TANT	FFIAN	I ANI	
		FAN2		FAN2	
Blue 11	High temperature of the unit	T1 (for outside)	TEMP3	T1	
Dide 11	ing. remperature of the unit	i i (ioi outsido)	I LIVII O	''	
		T2 (for inside)	1	T2	
Blue 13	Failure in the power supply of the	Vcc power decrease of	MB-POW	RELAY	
	MAIN Assy	the MAIN Assy			
Blue 15	Failure in communication with the EEPROM of the panel main microcomputer	-	-	-	

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Checkpoint	Possible Defective Part	Remarks
Communication line between MDU and SQ_LSI	IC3601/IC3301	SQ_IC communication not established. IC3301 may not have properly started u
Drive detectig signal of MDU (SQ_NON)	CN3201/IC3601/	A shutdown occurs if the drive waveform periodically does not output.
	IC3301/IC3607	(When SQ_NON of MDU input is High, a shutdown is generated.)
Communication line between MDU and SQ_LSI (BUSY_SQ)	IC3601/IC3301	If BUSY_SQ remains high, a shutdown is generated.
Check the DIGITAL Assy and the software version of	IC3601/IC3301	When the identification resistor of PSIZE/PLANT and software version of SEQ
SEQ and the destination of the panel.		are incoherent, a shutdown occurs.
Check the connection between [X1] and [D22].		
Check the DIGITAL Assy and the software version of	IC3601/	When the identification resistor of PSIZE/PLANT and stored content of
SEQ and the destination of the panel. Check the	SENSOR Assy(IC3902)	EEPROM on the SENSOR Assy are incoherent, a shutdown occurs.
connections between [X1] and [D22], and [SE1] and [D24].		
Communication line between MDU and BACKUP EEPROM		
Check the DIGITAL Assy and the software version of	IC3601/IC3602	When the identification resistor of PSIZE/PLANT and stored content of
SEQ and the destination of the panel. Check the		EEPROM on the DIGITAL Assy are incoherent, a shutdown occurs.
connections between [X1] and [D22].		,
Communication line between MDU and DIG EEPROM		
	IC3601/IC3602	
	IC3601/SENSOR Assy(IC3902)	
	IC3601/IC3605	
	IC3801/IC3805	If RST2 does not become high after the unit is turned on, a shutdown will be
0.0 V datput (11 0001) 01 BB0	100001/100000	generated in several seconds.
V+6.5V of POWER SUPPLY Unit (Check [D25][P4])	POWER SUPPLY Unit.	Check if V + 6_5 V is started. Also check if the FU3801 on the DIGITAL Assy
	FU3801	has been melted.
	SENSOR Assy	If TEMP1 that is read by the module microcomputer is 85 °C or higher, a
	•	shutdown will be generated.
	(IC3901) SENSOR Assy	If TEMP1 that is read by the module microcomputer is –20 °C or less, a
	•	·
	(IC3901)	shutdown will be generated. Also check the connection between SE1 and D24
•	JA8551 IC8401	Check if any speaker cable is in contact with the chassis.
_		Check if the AMP output is short-circuited.
6.5 V power supply for AUDIO Assy	R4203	Check that V+6_5 V is activated in the AUDIO Assy.
Periphery of the cable between MAIN and AUDIO,	CN4201,CN8301,	If it is not, check if R4203 on the MAIN Assy is open.
	CN8302	Check if cables are firmly connected.
,	IC8401	Charle the temperature of D. AMD IC that is 105 °C as higher
_		Check the temperature of D_AMP IC that is 125 °C or higher.
	IC7001,IC3601	Check the communication lines (TXD_MD/RXD_MD/REQ_MD).
	CN4002,CN3201	Check if cables are firmly connected.
	IC7001,IC5001	Check the communication lines (SCL_DP/SDA_DP).
-	IC7001,IC8341	Check the communication lines (SCL_AV/SDA_AV).
	IC8331	Check that the voltage outputs it.
Periphery of the cable between MAIN and AUDIO Assys	CN4201,CN8301	Check if cables are firmly connected.
Dirt attached to the fan motor		Check the fan. (SD10 does not detect it at the temperature that fans do not turn.)
	CN4101,CN1201	Check if cables are firmly connected.
Periphery of the cable between FAN and FAN CH Assys		Check if cables are firmly connected.
1 2	CN3302	Check if cables are firmly connected.
-	IC1202	Check that the voltage outputs it.
Dirt attached to the fan motor		Check the fan. (SD10 does not detect it at the temperature that fans do not turn.)
Periphery of the cable between MAIN and FAN Assys	CN4101,CN1201	Check if cables are firmly connected.
	CN1202,CN3304	Check if cables are firmly connected.
	CN3301	Check if cables are firmly connected.
Periphery of the fan control regulator	IC1201	Check that the voltage outputs it.
Ambient temperature of the panel section and temp. sensor	IC1203	Shutdown occurs if the periphery of IC1203 (temp. sensor) is high temperatur
Periphery of the cable between MAIN and FAN Assys	CN4101,CN1201	Check if cables are firmly connected.
Periphery of the cable between FAN and SENS Assys	CN1203,CN2401	Check if cables are firmly connected.
6.5 V power supply of the MAIN Assy	CN4502	Check if V + 6_5 V is started.
Communication line between main ucom and EEPROM	IC7001, IC7003	Check the communcation lines (SCL_E2P/SDA_E2P)

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5.5 NON-FAILURE INFORMATION

[1] FUNCTION OF DECREASING THE BRIGHTNESS LEVEL

If the panel temperature becomes high or a video signal that requires activation of panel protection is input, the unit will protect the panel by decreasing the brightness level.

* While a mask is being displayed, the panel protection function will not be activated.

Protection Function Name	Purpose	Conditions	Protection Function	Remarks	
High-temperature protection function 1	For protection of parts (DCF)	Panel temperature (TEMP1) reaches 65 °C.	Offsetting the ABL adjustment value		
High-temperature protection function 2	For reducing heating in the unit	Panel temperature (TEMP1) reaches 80 °C.	Limiting for the maximum number of SUS pulses		
Panel protection function 1	For preventing burn-in	A still image is displayed for 3 minutes or more.	Limiting for the maximum number of SUS pulses	The picture will be considered to be still if only the mouse cursor is moved.	
Panel protection function 2	For protection of SCAN ICs	An image with which a particular load is applied to one SCAN IC is displayed. (See Fig. 2)	Limiting for the maximum number of SUS pulses		
Panel protection function 3	For protection against panel cracking	An image with which the heat of part in the panel is increased is displayed. (See Fig. 3)	Limiting for the maximum number of SUS pulses		

■ Limiting for the maximum number of SUS pulses

By gradually decreasing the limit for the maximum number of SUS pulses, the temperature of the panel will be lowered.

- The limit for the maximum number of SUS pulses will be decreased by 8 per 5 seconds.
- The lower limit for the maximum number of SUS pulses is about 700.
- The maximum number of SUS pulses will begin to increase gradually if the conditions that led to activation of the protection function return to normal.

ABL adjustment value offset

By gradually offsetting the ABL adjustment value, the temperature of the panel will be lowered. The number of SUS pulses, which is determined based on the input APL (average picture level), will be decreased.

- The ABL adjustment value will be offset by one step per 30 seconds.
- The ABL adjustment value will be gradually restored if conditions that let to activation of the protection function return to normal.

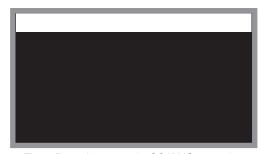


Fig. 2: Detection example: SCAN IC protection

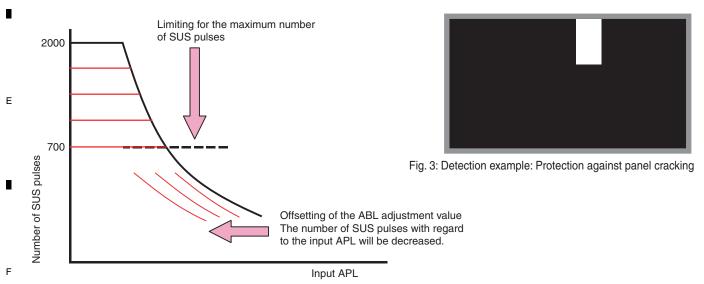


Fig. 1: Relationship between input APL and number of SUS pulses

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5.6 OUTLINE OF THE OPERATION

[1] PANEL DRIVE-POWER ON/OFF FUNCTION

Function:

It is an operational mode where the digital signal processing performs circuit operation but the power is not supplied to the panel driving system (Vsus, VAddress) in order to avoid a power down (PD).

Application:

- 1. When it is necessary to check whether the signal output is correctly reaching the drive system in a repairing activity etc.
- 2. In the case of a PD, to determine whether the problem is with the panel drive-power supply or with the other system power supply.

Method:

- 1. Short-circuit between the specified location of the POWER SUPPLY Unit and GND (Multi base section recommended), using a jumper with alligator clips (refer to the photos below).
- 2. Execute [DRV S00] by RS-232C command. ([DRV S01] for release)

Supplemental explanation:

- When the panel drive-power is in OFF state, there will be no PD, except PS_PD, as the PD signal has been muted.
- If the clip is removed in the OFF state of the panel drive-power, PD will take place at the instance of clip removal. Therefore, be sure to remove the clip after turning the power OFF.
- Under RS-232C command control, [DRV S01] (release) is possible during power ON. However, there is a possibility of damaging the set. Therefore, make this operation only after turning the power OFF.
- Command [DRV S00/S01] is effective even during standby.
- Setting with RS-232C commands or the remote control unit is enabled during Standby mode. However, if the unit is left unoperated for about 10 seconds in Standby mode after setting with RS-232C commands or the remote control unit is completed, the setting will become void.
- When the main power switch is set to OFF, no command is accepted.
- Setting with RS-232C commands or the remote control unit will become void if the AC power cord is unplugged, the main power switch is set to OFF, or the unit is left unoperated for about 10 seconds in Standby mode.

When the panel drive-power is ON

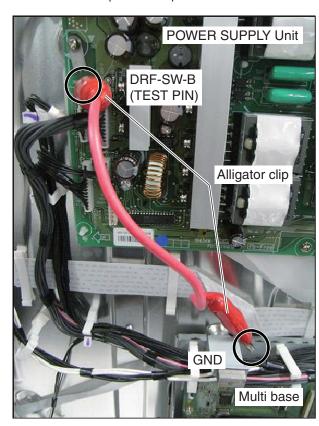


When the panel drive-power is OFF

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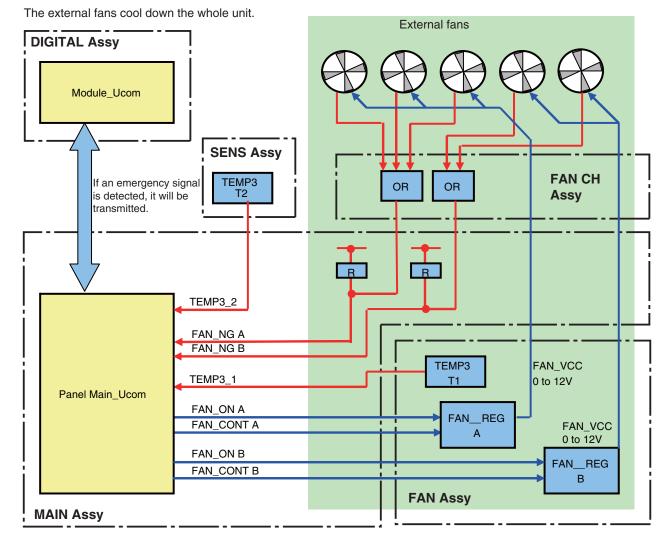
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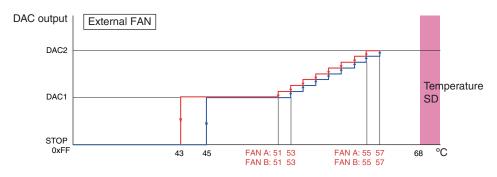
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[2] SPECIFICATION OF THE FAN CONTROL

■ Block diagram



Operation specifications



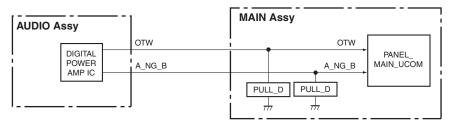
- The operating temperature of the fan is higher than the ambient temperature, because the sensor temperature is read by the microcomputer.
- If the critical values for signals are displayed in the address circuit, the fan may be activated or be rotated at higher speed in response to values lower than the set temperature values shown above.
- Depending on the ventilation conditions behind the unit, the fan may be activated or be rotated at higher speed in response to values lower than the set temperature values shown above.
- When the temperature rises, the sensor voltage of TEMP3 increases.
- When the voltage of the DAC output from the Panel Main microcomputer decreases, rotation speed of the fan rises.
- Normally, the T1 temperature sensor output is used to control the fan. The T2 sensor detects the temperature inside the unit and assists T1.

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[3] PROCESSING IN ABNORMALITY

Speaker short-circuit

Circuit configuration



Specifications for port monitoring

Port Name	SD/PD Indication	Determination Condition	Monitoring conditions	Operation
A_NG_B		30 mS * 10 times	(Monitoring starts 2 sec	The main CPU operations described below will be performed when either "A NG B = L" or "OTW = L" is
отw	AUDIO	I Shutdown occurs when the sinnal is "I "		detected (established) under the monitoring conditions.

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Operation specifications of the main CPU

- (1) Establish the short-circuit of the speaker by the main CPU
 - After a warning indication is displayed for 5 sec, a shutdown is generated (the blue LED flashes 5 times).
 - A warning indication is displayed for all input-signal types.
 - Example of a warning indication: "The speaker terminals are short-circuited. After reconnection, turn the unit on again."

(2) Display conditions

When the panel is on: A warning indication is displayed immediately.

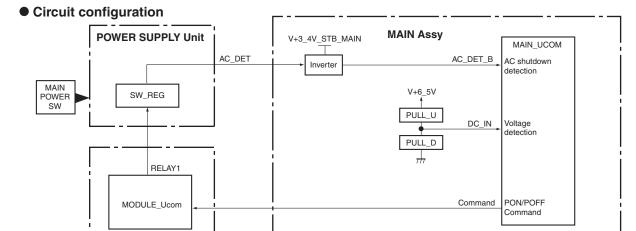
When the panel is off: A warning indication is not displayed immediately but is displayed when the panel is turned on.

Note: A warning indication is displayed each time the panel is turned on if the conditions for a shutdown persist.

Conditions for resetting the circuits

The circuits will be reset upon Standby ON/OFF.

Power supply



Specifications for port monitoring

DIGITAL ASSY

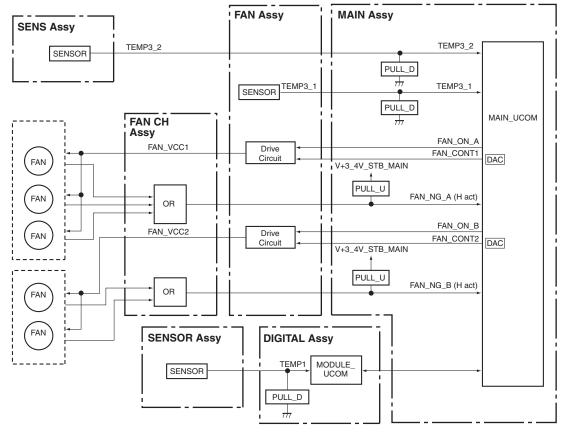
Port Name	SD/PD Indication	Determination Condition	Monitoring conditions	Operation
DC_IN	MR POW	If the signal to DC IN does not become H within 5 seconds after the PON command is issued, the unit will shut itself off.		Shutdown occurs immediately Blue LED flashes 13 times

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Fan and temperature sensor

Circuit configuration

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Specifications for port monitoring

Port Name	SD/PD Indication	Determination Condition	Monitoring conditions	Operation
FAN_NG_A	FAN	Shutdown occurs when the signal is "H."	DC_IN = H and FAN_ON_A = H (Monitoring starts 3 sec after the	Shutdown occurs immediately Blue LED flashes 10 times
FAN_NG_B		1 S * 15 times	above conditions are established.)	
TEMP1	Panel temperature is high Shutdown occurs if any values equal to or greater than minimum to require a shutdown		Digital video RST2 = H	Shutdown occurs after waiting for 30 sec. Blue LED flashes 4 times
	Panel temperature is low	are detected. 200 mS * 5 times		Shutdown occurs after waiting for 3 sec. Blue LED flashes 4 times
TEMP3_1	Ambient temperature of the display	Shutdown occurs if any values equal to or greater than minimum to require a shutdown are detected. 1 S * 3 times	DC_IN = H (Monitoring starts 1 sec after the above conditions are established.)	In the Panel screen ON: Shutdown occurs after the warning indication is displayed for 30 sec. Blue LED flashes 11 times
TEMP3_2	Inside temperature of the display	Shutdown occurs if any values equal to or greater than minimum to require a shutdown are detected. 1 S * 3 times	DC_IN = H (Monitoring starts 1 sec after the above conditions are established.)	In the Panel screen ON: Shutdown occurs after the warning indication is displayed for 30 sec. Blue LED flashes 11 times

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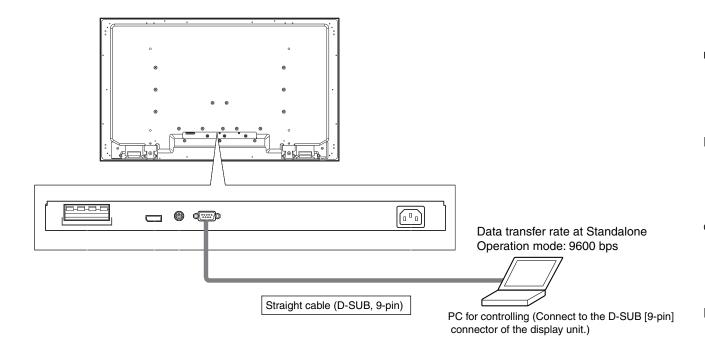
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[4] Standalone Operation Mode

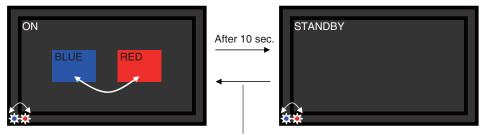
Standalone Operation mode is available with the KRP-600P and KRP-500P, by issuing the RS-232C command shown below. After disconnecting the system cable, connect an RS-232C cable to the display unit to issue a command.

SYSS00: Standalone Operation mode SYSS01: System Operation mode



Notes:

- To update the software for the display, disconnect the system cable, connect an RS-232C cable (straight), then perform updating.
- During System Operation mode, most of the RS-232C commands are invalid.
- The setting data during Standalone Operation mode immediately before the display is turned off will be stored in memory. After finishing operation in Standalone Operation mode, be sure to issue the SYSS01 command to return the display to System Operation mode before reconnecting it to the MR. If the display is connected to the MR without returning it to System Operation mode, the MR will automatically enter Standby mode soon after it is turned on, in which case no image will be displayed even though the display is turned on.
- No audio nor video signals are output if any display port cable other than the one for this display is connected to its system
 cable port (terminal). The mask signal (output in response to a mask command) is the only video output available during
 Standalone Operation mode.
- During normal System Operation mode (SYSS01) the display monitors the connection status with the MR.
 If communication between the MR and the display cannot be established for any reason, such as disconnection of the system cable or MR's AC power being off, a system error warning will be indicated with the LED and on the mask screen for about 10 seconds, after which the display will automatically shut itself off. (Even after power-off, flashing of the LED for warning continues.)



Turn on with the remote control unit. (After about 7 sec.)

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5.7 OUTLINE OF RS-232C COMMAND

[1] PREPARED TOOLS

It is necessary to prepare the following one to use 232C command.

- PC
- Application for control
- 232C cable (straight)
- * The setting of the Com port cannot be communicated if it doesn't do correctly. (Please follow a set explanation of PC in the Com port)

[2] USING RS-232C COMMANDS

Issue the SYSS00 command to set the unit to Standalone Operation mode.

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Note: While the display is in System Operation mode (SYSS01) with the Media Receiver (MR,) among the received commands via the RS-232C connector on the display, only the SYS commands are valid.

To enable other RS-232C commands, set the display to Standalone Operation mode (SYSS00).

■ RS-232C command list

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Color sensor function: ON Color Space mode 1: Pioneer original standard Color Space mode 2: In compliance with the EBU standard Color sensor blue coefficient Color sensor green coefficient Color sensor red coefficient MOD Color sensor red coefficient Color sensor red coefficient Color sensor red coefficient Color temperature setting: OFF Color temperature setting: LOW Color temperature setting: MID LOW	CSD				MOD	•	
Color Space mode 1: Pioneer original standard Color Space mode 2: In compliance with the EBU standard **** Color sensor blue coefficient Color sensor green coefficient Color sensor red coefficient MOD **** Color sensor red coefficient Color sensor red coefficient Color temperature setting: OFF Color temperature setting: LOW Color temperature setting: LOW Color temperature setting: MID LOW			+ -				
So2 Color Space mode 2: In compliance with the EBU standard **** Color sensor blue coefficient **** Color sensor green coefficient **** Color sensor green coefficient **** Color sensor red coefficient **** Color sensor red coefficient *** MOD **** Color sensor red coefficient *** MOD **** Color temperature setting: OFF *** Other temperature setting: LOW **** Color temperature setting: LOW **** Color temperature setting: MID LOW **** Color temperature setting: MID LOW **** Color temperature setting: MID LOW			+ -				
Color sensor blue coefficient *** Color sensor green coefficient *** Color sensor red coefficient *** Color sensor red coefficient Color temperature setting: OFF Color temperature setting: LOW Color temperature setting: MID LOW Color temperature setting: MID LOW	SM S01						
Color sensor green coefficient Color sensor red coefficient MOD Color temperature setting: OFF Color temperature setting: LOW Color temperature setting: LOW Color temperature setting: LOW Color temperature setting: LOW Color temperature setting: MID LOW	S02	<u> </u>					
*** Color sensor red coefficient	JOB	Color Serisor blue coefficient	+ -				
Soo Color temperature setting: OFF Color temperature setting: LOW Color temperature setting: MID LOW	,00	Color Serisor green coemicient	+ -				
S01 Color temperature setting: LOW Color temperature setting: MID LOW Color temperature setting: MID LOW	7011	Color Serisor red coefficient	•		MOD	•	
S02 Color temperature setting: MID LOW	CTP S00	3 · · · · · · · · · · · · · · · · · · ·	•				
	S01						
	S02		+ -				
	S03		•				
S04 Color temperature setting: MID HIGH	S04	Color temperature setting: MID HIGH	•				
S05 Color temperature setting: HIGH	S05	Color temperature setting: HIGH	•	<u></u>			
	D						
S00 Dither/L dither: OFF, noise: OFF	DIZ S00	Dither/L dither: OFF, noise: OFF	•			•	
S01 Dither/L dither: ON, noise: ON	S01	1 Dither/L dither: ON, noise: ON	•			•	
S02 Dither/L dither: OFF, noise: ON	S02	Dither/L dither: OFF, noise: ON	•			•	
S03 Dither/L dither: ON, noise: OFF	S03	B Dither/L dither: ON, noise: OFF	•			•	
S00 Panel drive-power: OFF	ORV S00	Panel drive-power: OFF	•				
S01 Panel drive-power: ON	S01	Panel drive-power: ON	•				

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			Com	mand			
Comn	nand	Function	Receivin	ig UCOM	Last Memory	Effective only during FAY	Remarks
F			MOD	PM	wiemory	uuring i Ai	
FAJ		To set the flag for DIGITAL Assy adjustment to "Adjusted"			MOD	•	
FAN		Factory mode: OFF	•	•		•	
FAY		Factory mode: ON	•	•			
FBM	S00	OFF (disabling in-phase SUS drive)	•		MOD	•	For enabling changed setting, it is necessary to
	S01	MODE 1 (enabling in-phase SUS drive)	•		MOD	•	turn the unit off then back on again.
FCP	S00	To cancel Panel FAN Control mode (Normal mode)		•	PM	•	
	S01	To set to Panel FAN Control MAX mode		•	PM	•	
	S02	To set to Panel FAN Control MIN mode		•	PM	•	
	S03	To set to Panel FAN Control STOP mode		•	PM	•	
FSP		To set the Panel main microcomputer to factory-preset values		•	PM	•	
L							
LED	S00	Display front indicators: All unlit		•		•	Corresponding to reception via the RS-232C
	S02	Display front indicators: Normal operation		•		•	connector on the display
	S10	Display front indicators: ON lit		•		•	
	S11	Display front indicators: STANDBY lit		•		•	
М							
MIR	S00	Mirror indication mode: OFF	•				
	S01	Mirror indication mode: Flip horizontal	•				
	S02	Mirror indication mode: Flip vertical	•				
	S03	Mirror indication mode: Flip horizontal and vertical	•				
MKC	S00	MASK OFF	•		MOD		
	S01	H RAMP (Slant 1) M	•		MOD	•	
	S02	H RAMP (Slant 4) M	•		MOD	•	
	S03	Slanting ramp M	•		MOD	•	
	S04	30 for aging	•		MOD	•	
	S05	05 for aging	•		MOD	•	
	S06	Afterimage wiping 1	•		MOD	•	
	S07	Afterimage wiping 2	•		MOD	•	
	S08	White (luminance change)	•		MOD	•	
	S09	Peak detection raster	•		MOD	•	
	S10	Address-lack check	•		MOD	•	
	S11	To scroll vertical green lines	•		MOD	•	
	S12	To scroll horizontal green lines	•		MOD	•	
	S13	To scroll vertical ramp vertically (white)	•		MOD	•	
	S14	To scroll vertical ramp vertically (green)	•		MOD	•	
	S15	To scroll horizontal ramp horizontally (white)	•		MOD	•	
	S16	To scroll horizontal ramp horizontally (green)	•		MOD	•	
	S17	Crosshatch + Window	•		MOD	•	
MKS	S00	MASK OFF	•		MOD		
	S01	H RAMP (Slant 1)	•		MOD	•	
	S02	H RAMP (Slant 4)	•		MOD	•	
	S03	V RAMP (Slant 1)	•		MOD	•	
	S04	Slanting ramp	•		MOD	•	
	S05	Window (Hi= 870, Lo= 102)	•		MOD	•	
	S06	Window (Hi= 1023, Lo= 102)	•		MOD	•	
	S07	Window (Hi= 1023, Lo= 000)	•		MOD	•	
	S08	Window (Hi= 1023) 4%	•		MOD	•	
	S09	Window (Hi= 1023) 1.25%	•		MOD	•	
	S10	Window (1/7LINE)	•		MOD	•	
	S11	STRIPE (MGT/GRN)	•		MOD	•	
	S12	STRIPE (GRN/MGT)	•		MOD	•	
	S13	Checker in monochrome (1 line)	•		MOD	•	
	S14	Checker in monochrome (2 lines)	•		MOD	•	
	S15	Checker in monochrome (4 lines)	•		MOD	•	
	S16	Checker in monochrome (8 lines)	•		MOD	•	
	S17	COLOR BAR	•		MOD	•	
	S18	Slanting lines	•		MOD	•	
	S19	Checker in black and red (1 line)	•		MOD	•	
	S20	Checker in black and red (2 lines)	•		MOD	•	

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Command Last Effective only Receiving UCOM Command **Function** Remarks Memory during FAY MOD PM M • MOD MKS S21 Checker in black and red (4 lines) • • MOD S22 Checker in black and red (8 lines) • S23 Afterimage wiping (RGB zigzag, V reverse) • MOD Change of the Peak Brightness Detection function (PKD) impossible S24 Black raster (maximum pulse count) MOD S25 1 for perfect linear • MOD • MOD S26 2 for perfect linear S27 • MOD 3 for perfect linear • S28 MOD 4 for perfect linear • MOD S29 RGB checker 1 • MOD S30 RGB checker 2 Window RED (RED= 1023) • MOD S31 S32 Window GREEN (GREEN= 1023) • MOD • S33 Window BLUE (BLUE= 1023) • MOD • S34 Horizontal stripes for even-numbered lines • MOD • S35 • MOD • Horizontal stripes for odd-numbered lines S36 Afterimage test 1 • MOD • S37 Afterimage test 2 • MOD • S38 Afterimage test 3 • MOD • S39 • MOD • Afterimage test 4 S40 • MOD • Slanting ramp in Red only S41 • MOD • Slanting ramp in Green only S42 Slanting ramp in Blue only • MOD • • MOD S43 1 for checking lighting of the display • • MOD • S44 2 for checking lighting of the display S45 5 for perfect linear • MOD • • MOD • S46 6 for perfect linear • MOD • S47 7 for perfect linear S48 8 for perfect linear • MOD • Mask for ABL adjustment • MOD • S49 MASK OFF • MOD S00 MKR S01 Raster - White • MOD • S02 Raster - Red • MOD • S03 Raster - Green • MOD • S04 Raster - Blue • MOD • S05 Raster - Black • MOD •

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S06 Raster - Cyan • MOD • S07 Raster - Magenta lacktrianMOD • S08 Raster - Yellow lacktrianMOD • S09 Raster - Light purple lacktrianMOD • S10 Raster - Pink • MOD • S11 Raster - Yolk-colored • MOD • S12 Raster - Light blue • MOD • S13 Raster - Beige • MOD • MOD • S14 Raster - Red 996+ • • MOD S15 Raster - Red 1023+ • • MOD S16 Raster - Gren 1023+ • • MOD S17 Raster - Blue 1023+ • S18 Raster - Red 626+ MOD • S19 Raster - Green 718+ • MOD • • MOD • S20 Raster - Blue 626+ • MOD S21 Raster - Gray 120 • MOD S22 Raster - Cyan 169 • S23 MOD Raster - Magenta 169 • MOD S24 Raster - Yellow 169 • MOD • S25 Raster - Gray 307

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Comn	nand	Function	Comi Receivir		Last Memory	Effective only during FAY	Remarks
N							
NGP	S00	Negative/positive inverse: OFF	•				
	S01	Negative/positive inverse: ON	•				
P							
PAV	S00	AV selection: FACTORY	•				
	S01	AV selection: STANDARD/PERFORMANCE	•				
	S02	AV selection: DYNAMIC	•				
	S03	AV selection: MOVIE	•				
	S04	AV selection: GAME	•				
	S05	AV selection: SPORTS	•				
	S06	AV selection: PURE	•				
	S07	AV selection: USER	•				
	S08	AV selection: isf-DAY	•				
	S09	AV selection: isf-NIGHT	•				
	S10	AV selection: OPTIMUM	•				
	S11	AV selection: Isf-AUTO	•				
	S12 S13	AV selection: Standard AV selection: Reserved (Australian standard)					
PBH	S13	AV selection: Reserved (Australian standard) Panel white balance adjustment-Blue high-light			MOD	•	
PBL	***	Panel white balance adjustment-Blue low-light			MOD	•	
PBX	***	Panel Bx measurement value			MOD	•	
PBY	***	Panel By measurement value			MOD	•	
PCS	S00	Normal operation			WIOD		
1 00	S01	Catalog specifications operation	•				
PDM	S00	To enable power-down operation (To input a PD signal to the POWER SUPPLY Unit)	•				
. 5	S01	To disable power-down operation (Not to input a PD signal to the POWER SUPPLY Unit)	•				
PES	S00	Common to displays for consumer use: Standard	•				
	S01	Common to displays for consumer use: Power-save 1	•				
	S02	Common to displays for consumer use: Power-save 2	•				
	S10	Domestic standard for displays for consumer use: Standard	•				
	S11	Domestic standard for displays for consumer use: Power-save 1	•				
	S12	Domestic standard for displays for consumer use: Power-save 2	•				
PFL	S**	Correction of luminance at the center of the screen	•				
	S00	Correction of luminance at the periphery of the screen: OFF	•				
	S01	Correction of luminance at the periphery of the screen: Fixed at ON	•				
	S02	Correction of luminance at the periphery of the screen: APL-interlocked to ON	•				
PFN		Panel module: Factory mode OFF	•			•	
PFS		Panel module: Factory-preset settings	•		MOD	•	
PFY		Panel module: Factory mode ON	•				Mask setting and MTB picture-quality settings remain the same.
PGB	S00	Blue gamma setting: Straight	•				
	S01	Blue gamma setting: Fixed at 1.6	•				
	S02	Blue gamma setting: Fixed at 1.7	•				
	S03	Blue gamma setting: Fixed at 1.8	•				
	S04	Blue gamma setting: Fixed at 1.9	•				
	S05	Blue gamma setting: Fixed at 2.0	•				
	S06	Blue gamma setting: Fixed at 2.1	•				
	S07	Blue gamma setting: Fixed at 2.2	•				
	S08	Blue gamma setting: Fixed at 2.3	•				
	S09	Blue gamma setting: Fixed at 2.4	•				
PGG	S10-31 S00	Blue gamma setting: Customized					
ruu	S00 S01	Green gamma setting: Straight					
		Green gamma setting: Fixed at 1.6					
	S02 S03	Green gamma setting: Fixed at 1.7					
	S03	Green gamma setting: Fixed at 1.8					
	S04 S05	Green gamma setting: Fixed at 1.9 Green gamma setting: Fixed at 2.0					
	S05	Green gamma setting: Fixed at 2.0 Green gamma setting: Fixed at 2.1					
	S07	Green gamma setting: Fixed at 2.1 Green gamma setting: Fixed at 2.2					
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Command		Function		Command Receiving UCOM MOD PM		Effective only during FAY	Remarks
Р			1	1		I	
PGG	S08	Green gamma setting: Fixed at 2.3					
	S09	Green gamma setting: Fixed at 2.4	•				
	S10-31	Green gamma setting: Customized	•				
PGH	***	Panel white balance adjustment-Green high-light			MOD	•	
PGL	***	Panel white balance adjustment-Green low-light			MOD	•	
PGX	***	Panel Gx measurement value			MOD	•	
PGY	***	Panel GY measurement value			MOD	•	
PGR	S00	Red gamma setting: Straight			WIOD		
1 GIT	S01	Red gamma setting: Sixalgrit Red gamma setting: Fixed at 1.6					
	S02	Red gamma setting: Fixed at 1.7					
	S03	Red gamma setting: Fixed at 1.7					
	S04	Red gamma setting: Fixed at 1.9		1			
	S05	Red gamma setting: Fixed at 2.0	•				
	S06	Red gamma setting: Fixed at 2.1	•	-			
	S07	Red gamma setting: Fixed at 2.2	•				
	S08	Red gamma setting: Fixed at 2.3	•	-			
	S09	Red gamma setting: Fixed at 2.4	•	-			
	S10-31	Red gamma setting: Customized	•				
PKD	S00	Peak Brightness Detection: OFF	•			•	
	S01	Peak Brightness Detection: ON	•			•	
PKL	S00	No brightness limitation: 100%	•				
	S01	Brightness limitation1: 87%	•				
	S02	Brightness limitation2: 73%	•				
	S03	Brightness limitation3: 60%	•				
	S04	Brightness limitation4: 52%	•				
	S05	Brightness limitation5: 40%	•				
	S06	Brightness limitation6: 27%	•				
	S07	Brightness limitation7: 13%	•				
PMT	S00	To cancel panel muting	•				
	S01	Panel muting	•				Muting cannot be performed while the built-in mask signal output is being displayed.
POF		To turn the unit OFF	•	•	PM		
PON		To turn the unit ON	•	•	PM		
PPT	S00	Panel Protection function: OFF	•			•	
	S01	Panel Protection function: ON				•	
PRH	***	Panel white balance adjustment-Red high-light			MOD	•	
PRL	***	Panel white balance adjustment-Red low-light	•		MOD	•	
PRX	***	Panel Rx measurement value			MOD	•	
PRY	***	Panel Ry measurement value			MOD	•	
Q		T and Try measurement value			IVIOD		
QAJ		To acquire various adjustment values	•	Τ			
QAL		To acquire the NG (SD) history managed by the Panel Main microcomputer	+ -	•			
QPB		To acquire various data managed by the Panel Main microcomputer		•			
QPD			•	_			
		To acquire the history of power-down places	_	-			
QPM		To acquire pulse-meter data	•	-			
QPW		To acquire white balance adjustment data of the panel	•	-			
QPF		To acquire characteristics/function settings data of the panel	•	-			
QS1		To acquire panel information, such as software versions	•	-			
QS2		To acquire panel status data, such as acquired temperatures of the panel in cases of operation changes	•				
QS3		To acquire panel information other than the above	•				
QS5		To acquire panel information (Individual functions)	•				
QSB		To acquire versions of various microcomputers of the panel main unit		•			
QSP		To acquire subversions of various microcomputers of the panel	•				
		To acquire shutdown data	•				
QSD		10 acquire strataowii data	_				

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R		Function		Command Receiving UCOM		Effective only during FAY	Remarks	
п			MOD	PIVI				
R1K	***	First reset (wedge width)			MOD	•		
R2K	***	Second reset (wedge width)			MOD	•		
	S00-7	Correction of panel deterioration, Blue level 0 to 7			MOD	•	Farmer bling about a self-on it is a self-on it.	
	S00-7	Correction of panel deterioration, Blue level 0 to 7 Correction of panel deterioration, Green level 0 to 7			MOD	•	For enabling changed setting, it is necessary to turn the unit off then back on again.	
RLS	S00-7				MOD	_		
-		Room light sensor operation: OFF						
-	S01-5	Room light sensor operation: 1 to 5	_				For exchine changed setting it is present to	
	S00-7	Correction of panel deterioration, Red level 0 to 7	•		MOD	•	For enabling changed setting, it is necessary to turn the unit off then back on again.	
S						ı		
SAT	***	Timing adjustment between the scan and address	•		MOD	•		
scw	S00	Normal operation	•					
-	S01	Warning, depiction in the blue window (left)	•					
	S02	Warning, depiction in the red window (right)	•					
SDM	S00	To enable shutdown operation	•					
	S01	To disable shutdown operation	•					
SFR	S01-8	Measurement against AM radio noise: Patterns 1 to 8	•		MOD	•	For enabling changed setting, it is necessary to turn the unit off then back on again.	
SKM	S00	Streaking Correction mode: OFF	•		MOD	•		
	S01-8	Streaking Correction mode: 1 to 8	•		MOD	•		
SMC	S00	Smooth clear driving: OFF	•			•		
	S01	Smooth clear driving: ON	•			•		
SN0	***	Serial No. setting 0 (Panel)	•		MOD	•		
SN1	***	Serial No. setting 1 (Panel)	•		MOD	•		
SN2	***	Serial No. setting 2 (Panel)	•		MOD	•		
SN3	***	Serial No. setting 3 (Panel)	•		MOD	•		
SN4	***	Serial No. setting 4 (Panel)			MOD	•		
SQM	S01	VIDEO sequence setting						
	S02	PC sequence setting						
-	S03	Retake sequence setting						
SSM	S00	SSCG OFF				•		
	S01	SSCG ON	•			•		
SWA	***	Estimate value for the color of the light source (absolute value)	•					
SWF	S00	Reflection of estimate value for the color of the light source: OFF						
	S01	Reflection of estimate value for the color of the light source: ON						
SWR	***	Estimate value for the color of the light source (relative value)	•					
	S00	Disabling monitoring of system cable disconnection (Standalone Operation)		•	PM		Effective only for the RS-232C connector on the panel	
SYS	S01	Enabling monitoring of system cable disconnection (System Operation)		•	PM		Effective only for the RS-232C connector on the panel	
т		(*)						
THS	S00	Interlocked operation of the theater port: OFF	•					
	S01	Interlocked operation of the theater port: ON	•					
U								
UAJ		To set the flag for DIGITAL Assy adjustment to "Not adjusted"	•		MOD	•		
٧								
V1F	***	To adjust the reference value for Vyknofs 1 and 2 voltages	•		MOD	•		
V3F	***	To adjust the reference value for Vyknofs 3 voltage	•		MOD	•		
V4F	***	To adjust the reference value for Vyknofs 4 voltage	•		MOD	•		
VFQ	S02	To set the frequency during mask display to VD-50 Hz	•		MOD	•		
	S03	To set the frequency during mask display to VD-60 Hz	•		MOD	•		
	S05	To set the frequency during mask display to VD-72 Hz	•		MOD	•		
ľ	S06	To set the frequency during mask display to VD-75 Hz-1	•		MOD	•		
r	S07	To set the frequency during mask display to VD-75 Hz-2	•		MOD	•		
 	S13	To set the frequency during mask display to PC-60 Hz	•		MOD	•		
VOF	***	To adjust the reference value for Vysnofs voltage	•		MOD	•		
VRP	***	To adjust the reference value for Vyprst voltage	•		MOD	•		
	***	To adjust the reference value for Vsus voltage			MOD	•		
		,		-				
VSU	***	To adjust the reference value for Vxnofs1 voltage			I MOD			
	***	To adjust the reference value for Vxpofs1 voltage To adjust the reference value for Vxpofs2 voltage	•		MOD	•		

Command Receiving UCOM Effective only Last Command **Function** Remarks Memory during FAY MOD PM W • S00 Panel WB standard output mode: OFF WBI S01 Panel WB standard output mode: ON • Χ X1B 3SF and after to First X SUS (oscillation increase amount) • MOD • ХЗВ 2SF to Third X SUS (oscillation increase amount) • MOD XSB 2SF to Repetition X SUS (oscillation increase amount) • MOD Υ Y1K 1SF to Y SUSTAIL (wedge width) • MOD Y1Z 1SF to Y SUSTAIL (oscillation decrease amount) • MOD Y2B 2SF to Second Y SUS (oscillation increase amount) • MOD Y2K 2SF to Y SUSTAIL (wedge width) • MOD Y2Z 2SF to Y SUSTAIL (oscillation decrease amount) • MOD YNK 3SF and after (2-pulse SSF) to Y SUSTAIL (wedge width) • MOD YTK 3SF and after to Y SUSTAIL (wedge width) • MOD YTZ 3SF and after to Y SUSTAIL (oscillation decrease amount) • MOD *** YSB 2SF to Repetition Y SUS (oscillation increase amount) • MOD

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Е

[1] QS1 (PANEL STATUS)

Model information and version information are returned.

Command Format	Effective Operation Modes	Function	Remarks
[QS1]	Every Time	Output of status	Return data: 3 (ECO) + 112 (DATA) + 2 (CS) = 117 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QS1
1	Resolution/Size	1 byte	F
2	Panel Generation	1 byte	9
3	Destination	1 byte	*
4	Grade	1 byte	*
5	Panel Product Form	1 byte	А
6	Boot version of Module microcomputer	3 byte	-01A
7	Program version of Module microcomputer	8 byte	-01A'''
8	Boot version of sequence processor	3 byte	-01Z
9	Program version of sequence processor	8 byte	-01Z'''
10	Panel information	8 byte	G9_50F_2
11	Derivative operation identification	1 byte	*
12	Reserved (panel section)	7 byte	*****
13	, (comma)	1 byte	,
14	MTB generation	1 byte	9
15	MTB destination	1 byte	A
16	MTB grade	1 byte	Н
17	MTB product form	1 byte	В
18	Program version of IF microcomputer	8 byte	-01A
19	Boot version of IF microcomputer	4 byte	01A
20	Program version of Main microcomputer	8 byte	-01A
21	Boot version of Main microcomputer	4 byte	01A
22	Common version of ASIC	8 byte	-01A
23	Boot version of ASIC	8 byte	01A
24	PRS version of ASIC	8 byte	-01A
25	PIC version of ASIC	8 byte	-01A
26	Common version of the Digital Tuner	8 byte	-0A
27	Boot version of the Digital Tuner	4 byte	01A
cs	2 Byte	2 byte	4A

11: 0	11: Derivative Operation Identification			
*	Standard model operation			
1	Derivative model operation			

14: MTB Generation		
9	G9	

15: MTB Destination			
Α	North America		
С	China		
Е	Europe		
G	General		
J	Japan		
U	Australia		

16: M	16: MTB Grade			
Н	Elite/One body Europe HD /System Europe HD/One body Australia			
Т	Regular/One body Europe SD			
D	Derivative Model			
*	No Grade (Japan/General/China)			

17: MTB Product Form			
В	One body model		
S	System model		

1: Resolution/Size						
F	50-FHD (1920*1080)					
G	60-FHD (1920*1080)					

2: Panel Generation				
9	G9			

3: Destination				
*	Commonness			

4: Grade	
*	Commonness
Z	Evaluation

5: Not used	
Α	"A" fixed

10: Panel Information (8 Byte)		
1 to 2nd byte	G9	Generation information
4 to 5th byte	50	50 inch
	60	60 inch
6th byte	F	FHD
8th byte	3	50 inch 2nd PLANT (Reserved)
	2	50 inch 2nd PLANT
	1	50 inch 1st PLANT
	í	Others

^{&#}x27;= space

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[2] QS2 (PANEL OPERATION DATA)

The command QS2 is for acquiring data on the panel's operational information.

Command Format	Effective Operation Modes	Function	Remarks
[QS2]	Every Time	Output of status	Return data: 3 (ECO) + 34 (DATA) + 2 (CS) = 39 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QS2
1	Notify of the standby operation transition	1 byte	1
2	Adjustment flag of the main unit	1 byte	0
3	Adjustment-data backup flag	1 byte	0
4	"1st PD" data	1 byte	0
5	"2nd PD" data	1 byte	0
6	Color sensor data	1 byte	0
7	Reserved	2 byte	**
8	Temperature data (TEMP 1)	3 byte	128
9	SD data	1 byte	0
10	SD subcategory data	1 byte	0
11	Operation status induced by SD	1 byte	0
12	Reserved	3 byte	***
13	HOUR METER	8 byte	00000259
14	MASK indication	1 byte	0
15	Still picture detection	1 byte	0
16	SCAN protection detection	1 byte	0
17	Panel crack detection	1 byte	0
18	Address emergency detection	1 byte	0
19	Reserved	4 byte	***
CS 2 Byte		2 byte	4A

1: Power supply status		
Р	During power ON	
0	Shifting to Passive Standby is not possible.	
1	Shifting to Passive Standby is possible.	

2: Adjustment flag of the main unit	
0	Adjustment completed
1	Adjustment not completed

3: Adjustment-data backup flag	
0	Adjustment completed
1 Adjustment not completed	

4, 5:	4, 5: PD data		
0	No PD data		
2	POWER		
3	SCAN		
4	SCN-5V		
6	Y-DCDC		
7	Y-SUS		
8	ADRS		
Α	X-DCDC		
В	X-SUS		
С	DIG-DCDC		
F	UNKNOWN		

6: Color sensor data		
-	Function OFF (including standby)	
0	Normal	
1	Hardware connection is not completed	
2	Data mismatching	

9: SD data		
0	No SD	
1	SQ_LSI	
2	MDU-DEVICE	
3	RST2	
4	Panel temperature	

10-1: SD subcategory (SQ_LSI)		
0	No SD-Sub data	
1	Communication error	
2	Drive stop	
3	BUSY	
4	Version mismatching (H/S)	
5	Version mismatching (H/M)	
6	Version mismatching (H/I)	

10-2: SD subcategory (MDU-DEVICE)		
0 No SD-Sub data		
1	EEPROM	
2	BACKUP	
3	DAC	

10-3: SD subcategory (Panel temperature)		
0	No SD-Sub data	
1	Panel high temperature	
2	Panel low temperature	

11: Operation status induced by SD		
0	Normal	
1	Relay-off completed	
2	During warning indication	

14: MASK indication		
0	MASK-OFF	
1	MASK-ON	

0 Normal operation	15 to 18: Detection of Each Protection function			
	0	Normal operation		
1 At detection of protection operation	1	At detection of protection operation		

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[3] QS3 (OTHER DATA ON THE PANEL)

The command QS3 is for acquiring data on operational information of the panel.

Command Format	Effective Operation Modes	Function	Remarks
[QS3]	Every Time	Output of status	Return data: 3 (ECO) + 58 (DATA) + 2 (CS) = 63 Byte

	Data Arrangement		Output Example
ECO	ECO		QS3
1	SERIAL	15 byte	
2	HOUR METER	8 byte	00000000
3	TOTAL HR METER	8 byte	00000000
4	PON COUNTER	8 byte	00000000
5	Panel temperature (*1)	5 byte	23.5
6	Reserved (TEMP0 acquisition)	5 byte	
7	MAX panel temperature history (*1)	5 byte	78.3
8	Reserved	4 byte	***
CS	2 Byte	2 byte	94

Note (*1): Centigrade scale

[4] QS5 (COLOR SENSOR DATA)

The command QS5 is for acquiring the color sensor information.

Command Format	Effective Operation Modes	Function	Remarks
[QS5]	Every Time	Output of status	Return data: 3 (ECO) + 45 (DATA) + 2 (CS) = 50 Byte

	Data Arrangement		Output Example
ECO		3 byte	QS5
1	Color sensor data (Note)	1 byte	2
2	RED data of color sensor	4 byte	0425
3	GREEN data of color sensor	4 byte	2112
4	BLUE data of color sensor	4 byte	5000
5	Reserved	32 byte	** to **
CS	2 Byte	2 byte	94

Note: The color sensor data is output as the same data as QS2.

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[5] QSP (SUB VERSION OF THE PANEL SECTION)

The command QSP is for acquiring sub version data on software of the panel.

Command Format	Effective Operation Modes	Function	Remarks
[QSP]	Every Time	Output of status	Return data: 3 (ECO) + 40 (DATA) + 2 (CS) = 45 Byte

	Data Arrangement		Output Example
		Length	
ECO		3 byte	QSP
1	MDUcom-PRG	8 byte	=01Y
2	MDUcom-DATA_TBL	8 byte	=01Y ''''
3	SQ_LSI-PRG	4 byte	=01Y
4	SQ_LSI-PIC_TBL	8 byte	=01Y ''''
5	SQ_LSI-SEQ_DATA	4 byte	=01Y
6	Reserved	8 byte	*****
CS	2 Byte	2 byte	A3

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[6] QAJ (PANEL ADJUSTMENT DATA)

The command QAJ is for acquiring the panel's factory-preset data.

Command Format	Effective Operation Modes	Function	Remarks
[QAJ]	Every Time	Output of status	Return data: 3 (ECO) + 84 (DATA) + 2 (CS) = 89 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QAJ
1	Vsus adjustment value	3 byte	128
2	Vysnofs adjustment value	3 byte	128
3	Vyprst adjustment value	3 byte	128
4	Vxpofs1 adjustment value	3 byte	128
5	Vxpofs2 adjustment value	3 byte	128
6	Vyknofs1,2 adjustment value	3 byte	128
7	Vyknofs3 adjustment value	3 byte	128
8	Vyknofs4 adjustment value	3 byte	128
9	Δ Vyknofs1,2/3/4 adjustment value	3 byte	128
10	Reserved	6 byte	*****
11	R1K adjustment value	3 byte	128
12	R2K adjustment value	3 byte	128
13	Y1K adjustment value	3 byte	128
14	Y1Z adjustment value	3 byte	128
15	X1B adjustment value	3 byte	128
16	Y2B adjustment value	3 byte	128
17	X3B adjustment value	3 byte	128
18	YSB adjustment value	3 byte	128
19	XSB adjustment value	3 byte	128
20	YTK adjustment value	3 byte	128
21	YTZ adjustment value	3 byte	128
22	Y2K adjustment value	3 byte	128
23	Y2Z adjustment value	3 byte	128
24	YNK adjustment value	3 byte	128
25	SAT adjustment value	3 byte	128
26	Reserved	3 byte	***
27	AM radio countermeasure	1 byte	1
28	Reserved	2 byte	**
CS	2 Byte	2 byte	B7

27: AM radio countermeasure	
n	n: 1 to 8 (SUS frequency n)

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[7] QPW (VIDEO ADJUSTMENT DATA OF THE PANEL)

The command QPW is for acquiring the factory-preset data about the video of the panel.

Command Format	Effective Operation Modes	Function	Remarks
[QPW]	Every Time	Output of status	Return data: 3 (ECO) + 40 (DATA) + 2 (CS) = 45 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QPW
1	Type of drive sequence (Note 1)	4 byte	60VS
2	ABL adjustment table	1 byte	1
3	Type of WB adjustment table (Note 1)	1 byte	1
4	ABL adjustment value	3 byte	128
5	R-HIGH adjustment value	3 byte	256
6	G-HIGH adjustment value	3 byte	256
7	B-HIGH adjustment value	3 byte	256
8	R-LOW adjustment value	3 byte	512
9	G-LOW adjustment value	3 byte	512
10	B-LOW adjustment value	3 byte	512
11	R gamma setting	2 byte	31
12	G gamma setting	2 byte	10
13	B gamma setting	2 byte	10
14	Streaking correction	1 byte	1
15	Center luminance correction	1 byte	0
16	Reserved	1 byte	*
17	Interlocked with APL	1 byte	0
18	Transition of protective operations	1 byte	0
19	Reserved	2 byte	**
CS	2 Byte	2 byte	37

1: Type of Drive sequence	
50VS	Video 50 Hz
60VS	Video 60 Hz
72VS	Video 72 Hz
75V1	Video 75-1 Hz
75V2	Video 75-2 Hz
60PS	PC 60 Hz

2: AB	L adjustment
tab	le
n	n: 1 to 3

3: Type of WB adjustment table	
n	n: 1 to 4

11, 12,	13: RGB Gamma setting
n	00 to 31

15: Center luminance correction			
0	OFF		
1	ON		
2	ON (interlocked with APL)		

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17: Interlocked with APL		
0	0 OFF	
1	ON	
2 WB interlocked ON/γ OFF		
3 WB interlocked OFF/γ ON		

18: Transition of protective operations	
0	Upper limit state for brightness
1	Brightness being reduced
2	Lower limit state for brightness
3	Brightness being increased

Note 1: The "75 Hz-2" Drive Sequence type signals and WB Adjustment Table 4 are output only when "75 Hz-2" (VFQS07) is selected for internal signals (mask signals). When external signals are selected and the Drive Sequence type is 75 Hz, "75 Hz-1" is output because "75 Hz-1" and "75 Hz-2" are not distinguished for external signals.

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[8] QPF (FUNCTION OF THE PANEL)

The command QPF is for acquiring the characteristic and the function setting value of the panel.

Command Format	Effective Operation Modes	Function	Remarks
[QPF]	Every Time	Output of status	Return data: 3 (ECO) + 69 (DATA) + 2 (CS) = 74 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QPF
1	R-REVISE setting value	1 byte	0
2	G-REVISE setting value	1 byte	0
3	B-REVISE setting value	1 byte	0
4	Reserved	3 byte	***
5	ADDRESS L1,L2 setting value	2 byte	01
6	ADDRESS L3,L4 setting value	2 byte	13
7	ADDRESS U1,U2 setting value	2 byte	32
8	ADDRESS U3,U4 setting value	2 byte	30
9	Reserved	4 byte	****
10	Streaking correction	1 byte	1
11	Full-screen black display mode	1 byte	1
12	Reserved	4 byte	****
13	PANEL RX	3 byte	512
14	PANEL RY	3 byte	512
15	PANEL GX	3 byte	512
16	PANEL GY	3 byte	512
17	PANEL BX	3 byte	512
18	PANEL BY	3 byte	512
19	Reserved	6 byte	****
20	Color sensor R coefficient	3 byte	***
21	Color sensor G coefficient	3 byte	***
22	Color sensor B coefficient	3 byte	***
23	Reserved	12 byte	** to **
CS	2 Byte	2 byte	37

1: 2: 3: RGB-REVISE setting value		
n	n: 0 to 7 (Level n)	

5 to 8: ADDRESS α , β setting			
nm n: 0 to 9 (Address α setting PHASE n)			
	m: 0 to 9 (Address β setting PHASE m)		

10: Streaking correction		
I	0	OFF
	n	n: 1 to 8 (Mode n)

11: Full-screen black display mode		
0 OFF (In-phase SUS drive prohibition)		
1	MODE1 (In-phase SUS drive permission)	

[9] QPM (PULSE METER VALUE)

The command QPM is for acquiring the accumulated pulse count.

Command Effective Operation Format Modes		Function	Remarks	
[QPM]	Every Time	Output of status	Return data: 3 (ECO) + 40 (DATA) + 2 (CS) = 45 Byte	

Data Arrangement		Data Length	Output Example
ECO		3 byte	QPM
1	Pulse meter B 1	8 byte	00000000
2	Pulse meter B 2	8 byte	00000000
3	Pulse meter B 3	8 byte	00000000
4	Pulse meter B 4	8 byte	00000000
5	Pulse meter B 5	8 byte	00000000
cs	2 Byte	2 byte	E7

Note:

The minimum for a returned value of the pulse meter for each block (B1-B2) is one million.

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[10] QPD (POWER DOWN LOGS)

The command QPD is for acquiring data from the 8 latest power-down (PD) logs.

Command Format	Effective Operation Modes	Function	Remarks
[QPD]	Every Time	Output of status	Return data: 3 (ECO) + 80 (DATA) + 2 (CS) = 85 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QPD
1	Latest "1st PD" data	1 byte	Α
2	Latest "2nd PD" data	1 byte	2
3	Data from the hour meter for the latest PD	8 byte	00010020
4	Second latest "1st PD" data	1 byte	Е
5	Second latest "2nd PD" data	1 byte	9
6	Data from the hour meter for the second latest PD	8 byte	00008523
7	Third latest "1st PD" data	1 byte	4
8	Third latest "2nd PD" data	1 byte	3
9	Data from the hour meter for the third latest PD	8 byte	00004335
10	Fourth latest "1st PD" data	1 byte	2
11	Fourth latest "2nd PD" data	1 byte	0
12	Data from the hour meter for the fourth latest PD	8 byte	00000945
13	Fifth latest "1st PD" data	1 byte	4
14	Fifth latest "2nd PD" data	1 byte	0
15	Data from the hour meter for the fifth latest PD	8 byte	00000715
16	Sixth latest "1st PD" data	1 byte	Α
17	Sixth latest "2nd PD" data	1 byte	2
18	Data from the hour meter for the sixth latest PD	8 byte	00000552
19	Seventh latest "1st PD" data	1 byte	Α
20	Seventh latest "2nd PD" data	1 byte	0
21	Data from the hour meter for the seventh latest PD	8 byte	00000213
22	Eighth latest "1st PD" data	1 byte	D
23	Eighth latest "2nd PD" data	1 byte	0
24	Data from the hour meter for the eighth latest PD	8 byte	000001A7
CS	2 Byte	2 byte	27

PD data			
0	No PD		
2	P-POWER		
3	SCAN		
4	SCN-5V		
6	Y-DCDC		
7	Y-SUS		
8	Address		
Α	X-DCDC		
В	X-SUS		
С	DIGI-DCDC		
F	UNKNOWN		

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[11] QSD (SHUTDOWN LOGS of the Panel Section)

The command QSD is for acquiring the data from the 8 latest shutdown (SD) logs of the panel section.

Command Format	Effective Operation Modes	Function	Remarks	
[QSD]	Every Time	Output of status	Return data: 3 (ECO) + 80 (DATA) + 2 (CS) = 85 Byte	

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QSD
1	Latest SD data	1 byte	1
2	Latest SD subcategory data	1 byte	0
3	Data from the hour meter for the latest SD	8 byte	00752013
4	Second latest SD data	1 byte	5
5	Second latest SD subcategory data	1 byte	0
6	Data from the hour meter for the second latest SD	8 byte	00495204
7	Third latest SD data	1 byte	2
8	Third latest SD subcategory data	1 byte	3
9	Data from the hour meter for the third latest SD	8 byte	00100355
10	Fourth latest SD data	1 byte	2
11	Fourth latest SD subcategory data	1 byte	5
12	Data from the hour meter for the fourth latest SD	8 byte	00075620
13	Fifth latest SD data	1 byte	1
14	Fifth latest SD subcategory data	1 byte	0
15	Data from the hour meter for the fifth latest SD	8 byte	00000852
16	Sixth latest SD data	1 byte	2
17	Sixth latest SD subcategory data	1 byte	2
18	Data from the hour meter for the sixth latest SD	8 byte	00000451
19	Seventh latest SD data	1 byte	0
20	Seventh latest SD subcategory data	1 byte	0
21	Data from the hour meter for the seventh latest SD	8 byte	00000000
22	Eighth latest SD data	1 byte	0
23	Eighth latest SD subcategory data	1 byte	0
24	Data from the hour meter for the eighth latest SD	8 byte	00000000
CS	2 Byte	2 Byte	7D

SD data		
0	No SD	
1	SQ_LSI	
2	MDU-DEVICE	
3	RST2	
4	Panel temperature	

SD subcategory (SQ_LSI)				
0	No SD-Sub data			
1	Communication error			
2	Drive stop			
3	BUSY			
4	Version mismatching (H/S)			
5	Version mismatching (H/M)			
6	Version mismatching (H/I)			

SD subcategory (MDU-DEVICE)			
0	No SD-Sub data		
1	EEPROM		
2	BACKUP		
3	DAC		

SD subcategory (Panel temperature)				
0	No SD-Sub data			
1	TEMP1 (high temperature)			
2	TEMP1 (low temperature)			

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[12] QSI (INPUT SIGNAL DATA)

The command QSI is for acquiring all data on input video signals.

Command Format	Effective Operation Modes	Function	Remarks
[QSI]	Every Time	Output of status	Return data: 3 (ECO) + 66 (DATA) + 2 (CS) = 71 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 Byte	QSI
1	Type of drive sequence (Note)	4 Byte	60VS
2	Type of ABL adjustment table (Note)	1 Byte	1
3	Type of WB adjustment table (Note)	1 Byte	1
4	Reserved	4 Byte	****
5	Total value of PRH	4 Byte	0256
6	Total value of PGH	4 Byte	0256
7	Total value of PBH	4 Byte	0256
8	Reserved	4 Byte	***
9	Total value of PRL	4 Byte	0512
10	Total value of PGL	4 Byte	0512
11	Total value of PBL	4 Byte	0512
12	Total value of ABL	3 Byte	128
13	V frequency distinction	4 Byte	6002
14	Reserved	4 Byte	****
15	APL acquiring data	4 Byte	1023
16	Number of SUS pulses	4 Byte	0457
17	Detection status of still picture	1 Byte	1
18	Detection status of cracking in the panel	1 Byte	1
19	Detection status of SCAN protection	1 Byte	1
20	Detection status of external protection	1 Byte	1
21	Transition of protection operations	1 Byte	0
22	Address emergency status	1 Byte	1
23	Detection status of reset operation	1 Byte	1
24	In-phase SUS mode status	1 Byte	1
25	Reserved	1 Byte	1
CS	2 Byte	2 Byte	27

18 to 20: Each protection function			
0	Setting: OFF		
1	Setting: ON (during wait)		
2	Setting: ON (during operation)		

21: Transition of protection operations			
0	Upper limit status for brightness		
1	Brightness being reduced		
2	Lower limit status for brightness		
3	Brightness being increased		

22: Address emergency status		
0	Normal status	
1	1 Emergency status	

23: Reset operation status			
Α	All reset operation		
2	Interlace 1/2 reset operation		
4	Interlace 1/4 reset operation		
L	Reset less operation (specifications operation)		

24: In-phase SUS mode status			
0	Normal status		
1	In-phase SUS mode status		
2	Assist status at the cancellation		

Note: The types of drive sequence and ABL/WB table are output as the same data as QPW.

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[13] DRV (PANEL DRIVE-POWER ON/OFF)

Panel drive-power ON/OFF (drive ON/OFF) is controllable.

	Operation		
Command Format	Effective Operation Modes	Function	Remarks
[DRV+S00]	Every time	DRIVE OFF	If a command is issued in Standby mode, and the unit is left unoperated for more than 10 seconds, the command will become void.
[DRV+S01]	Every time	DRIVE ON (default)	

Note: The function of the DRIVE OFF key on the remote control unit for servicing is the same as that of the DRVS00 command. (A function equivalent to that of the DRVS01 command is not provided for the remote control unit for servicing.)

[14] FAY/FAN (ADJUSTMENT COMMANDS PERMISSION/PROHIBITION)

The commands FAY/FAN are for prohibiting/permitting panel/MTB-adjustment commands.

	O _I	peration	
Command Format	Effective Operation Modes	Control	Remarks
[FAY]	Normal operation mode while the power is on	Adjustment command is valid.	For details, refer to the section "6.1 [3] FUNCTIONS WHEN ENTERING THE SERVICE FACTORY MODE" of the Service Manual for Media Receiver (KRP-M01).
[FAN]	During FAY	Adjustment command is invalid.	

[15] FAJ/UAJ/CBU/BCP (BACKUP FUNCTION FOR ADJUSTMENT VALUE)

When the DIGITAL Assy is to be replaced, adjustment values can be copied from the backup EEPROM to the EEPROM of the Assy for service.

Command		Operation							
Format	Effective Operation Modes	Control	Remarks						
[FAJ]		To make the status of the EEPROM on the DIGITAL Assy "adjustment completed" and copy the data to the EEPROM for backup	This takes at least 350 msec.						
[UAJ]	— During FAY	To make the status of the EEPROM on the DIGITAL Assy "adjustment not completed"	Only the status is changed, and the real data are not erased.						
[CBU]		To make the status of the EEPROM on for backup "adjustment not completed"	Only the status is changed, and the real data are not erased. However, if the status of the EEPROM on the DIGITAL Assy is "adjustment completed," the data in the EEPROM of the DIGITAL Assy will be copied to the EEPROM for backup upon POF.						
[BCP]		To copy the backup data from the EEPROM for backup to the EEPROM on the DIGITAL Assy							

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[16] QSB

Data on models and versions of the Module microcomputer and Panel Main microcomputer can be acquired.

Command Format	Effective status	Function	Remarks
[QSB]	Every time	To acquire versions of various programs managed by the Panel Main and Module microcomputers	Return data: 3 (ECO) + 87 (DATA) + 2 (CS) = 92 Byte

		Data Arrangement	Data Length	Output Example	Remarks
ECO	Echo back		3	"QSB"	
1		Display data 1 (resolution, size)	1	F	See QS1.
2		Display data 2 (generation)	1	9	See QS1.
3		Display data 3 (destination)	1	*	See QS1.
4		Display data 4 (grade)	1	*	See QS1.
5		Display data 5 (product style)	1	Α	See QS1.
6		Boot version of the Module microcomputer	3	01A	See QS1.
7	Data managed by the Module	Program version of the Module microcomputer (common program of the MD microcomputer)	8	001A''''	See QS1.
8	microcomputer	Boot version of the later ASIC (SQ_LSI Boot)	3	01H	See QS1.
9		Program version of the later ASIC (common program of the SQ_LSI)	8	001Y'''	See QS1.
10		PANEL INFO	8	G9_50F_2	See QS1.
11		Reserved	8		(All digits are padded with asterisks.)
12		Delimiter	1	" "	
13		Dummy	4	"****"	
			3	- 01	Version of the program
			1	Α	A (fixed)
14		Version data of the Panel Main microcomputer	1	S	S (fixed)
14		version data of the Panel Main microcomputer	3	Space	Reserved for the version of the program
	Data managed		1	Space	Reserved for the version of the boot program
	by the Panel Main		3	07A	Version of the boot program
15	microcomputer	Model data (Bezel color data, etc.)	1	1	1: R1 (ROM Table 1, 2: R2 (ROM Table 2), 3: R3 (ROM Table 3), E: EP (For use by engineers)
16		Firmware version data of the Displayport_Rx	16	1.10	Version of the program
17		Firmware version data of the Displayport_Rx	4	0C15	Version of hardware
18		Reserved	6		"Space"
CS	Check sum		2	(CS)	

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[17] QPB (Panel Main Operation Information)

Data on operation of the display main unit can be acquired.

Command Format	Effective status	Function	Remarks
[QPB]		To acquire data on current statuses managed by the Panel Main microcomputer	Return data: 3 (ECO) + 53 (DATA) + 2 (CS) = 58 Byte

	Data Arrangement	Data Length	Output Example	Remarks
ECO	Echo back	3	"QPB"	
1	Data on panel temperature	5	****	Temperature of the panel (in Centigrade) (Tmd)
2	Delimiter	1	" "	Comma
3	Unit temperature data 1	5	****	Temperature inside the unit (in Centigrade) (T1)
4	Delimiter	1	" "	Comma
5	Unit temperature data 2 (reserved)	5	****	Temperature inside the unit (in Centigrade) (T2) (Reserved, All digits are padded with asterisks.)
6	Delimiter	1	" "	Comma
7	Unit temperature data 3 (reserved)	5	****	Temperature inside the unit (in Centigrade) (T3) (Reserved, All digits are padded with asterisks.)
8	Delimiter	1	" "	Comma
9	Fan rotation speed A	1	А	Fan setting A (S: stop, L: Low, H: High, and A: Auto)
10	Fan control A/D value (A)	3	***	Fan control D/A value, A, decimal code
11	Fan rotation speed B	1	А	Fan setting B (S: stop, L: Low, H: High, and A: Auto)
12	Fan control A/D value (B)	3	***	Fan control D/A value, B, decimal code
13	Room Light Sensor level	1	5	0-7, padded with an asterisk during the sensor is off
14	Room Light Sensor A/D value	4	****	Brightness sensor A/D value, decimal code
15	Dummy 1	2	**	All digits are padded with asterisks.
16	System Operation mode of the panel	1	S	S: System Operation mode, T: Standalone Operation mode
17	Dummy 2	2	**	All digits are padded with asterisks.
18	Audio muting	1	0	0: Canceling muting, 1: Muting
19	Reserved	10	**	All digits are padded with asterisks.
CS	Check sum	2	(CS)	

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[18] QAL (Shutdown information for the display main unit)

Up to the 8 latest shutdown logs of the display main unit can be acquired.

Command Format	Effective status	Function	Remarks
[QAL]	Every time	To acquire up to the 8 latest shutdown logs managed by the Panel Main microcomputer	Return data: 3 (ECO) + 96 (DATA) + 2 (CS) = 101 Byte

	Data Arrangement	Data Length	Output Example	Remarks
ECO	Echo back	3	"QAL"	
1	Data on the latest shutdown	12		
2	Data on the 2nd latest shutdown	12		
3	Data on the 3rd latest shutdown	12		Reasons of the latest 8 shutdowns and hour-meter
4	Data on the 4th latest shutdown	12		data when the shutdowns were generated
5	Data on the 5th latest shutdown	12		(For details, see the tables below.)
6	Data on the 6th latest shutdown	12		
7	Data on the 7th latest shutdown	12		
8	Data on the 8th latest shutdown	12		
CS	Check sum	2	(CS)	

■ Shutdown (SD) data

Order	Content	Length (BYTE)	Value	Remarks
1	SD category data	1		SD category (For details, see the table below.) 0 for no SD
2	SD subcategory data	1		SD subcategory (For details, see the table below.)
3	HOUR METER	7		Time when a shutdown managed by the Panel Main microcomputer was generated All digits are padded with asterisks when there was no SD.
4	Dummy	3		All digits are padded with asterisks.

■ SD categories/SD subcategories

SD category (response)	Reason for SD	w/wo subcategory	SD subcategory (response)	Reason for subcategory				
"0"	No SD (no abnormality)	Without subcategory	"0"					
"5"	Shutdown signal from D-Amp.	With subcategory	"1"	A_NG_B : L				
5	Short-circuit of speaker terminal.	with subcategory	"2"	OTW : L				
"6"	Failure in module microcomputer communication	Without subcategory	"0"					
"8"	Failure in IIO and annual action	VACID I I I-	"1"	Displayport receiver				
"8"	Failure in IIC communication	With subcategory	"2"	Failure in AUDIO PWM IC communication				
A	FAN -1	VACID I I I	"1"	FAN_A stop				
"A"	FAN stop	With subcategory	"2"	FAN_B stop				
	Abnormal temperature of the display	Maria I .	"1"	High temperature at Temperature Sensor 1				
"B"	unit (high)	With subcategory	"2"	High temperature at Temperature Sensor 2				
"D"	Abnormality in power of the Display MAIN Assy	With subcategory	"1"	Abnormality in 6.5V power supply.				

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6. SERVICE FACTORY MODE 6.1 DETAILS OF THE FACTORY MENU

The Factory menu will be displayed only when the Media Receiver is connected. For details on how to enter Factory menu, refer to "6.1 DETAILS OF THE FACTORY MENU" in the service manual for the Media Receiver.

[1] PANEL FACT.

■ Operation Items

This is the menu screen for the adjustment of the panel. Data acquisition and value adjustment can be performed for the following items:

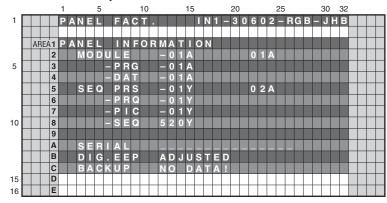
No.	Indication	Description of functions
[1-1]	PANEL INFORMATION	Data, such as the version of the microcomputer of the panel, product serial number, and statuses of EEPROM for adjustment values for the main unit and for backup, are displayed.
[1-2]	PANEL WORKS	Operation data, such as accumulated pulse-meter count, accumulated hour-meter count, accumulated power-on count, and the temperature detected by the sensor, are displayed.
[1-3]	POWER DOWN	The power-down history is displayed.
[1-4]	SHUT DOWN	The shutdown history of the panel section is displayed.
[1-5]	PANEL-1 ADJ (+)	Settings of the driving voltage and AM radio prevention can be performed.
[1-6]	PANEL-2 ADJ (+)	White balance and ABL (power consumption) for the panel can be set.
[1-7]	PANEL FUNCTION (+)	Setting of the panel-degradation correction-level and various functions are displayed.
[1-8]	ETC. (+)	Copying of backup data, clearing of various settings, and changing of settings for functions for which setting data are not stored upon last update are performed.
[1-9]	RASTER MASK SETUP (+)	The mask indication (RASTER) can be set and indicated.
[1-10]	PATTERN MASK SETUP (+)	The mask indication (PATTERN) can be set and indicated.
[1-11]	COMBI MASK SETUP (+)	The mask indication (COMBI) can be set and indicated.

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■ Details of indications in each layer

[1-1] PANEL INFORMATION

 Data, such as the version of the microcomputer of the panel, product serial number, and statuses of digital EEPROM for storing the adjustment values and for backup EEPROM, are displayed. No other layers are nested below this layer, and there are no adjustment items.



■ Key operation

<DOWN> : Shifting to PANEL WORKS
<UP> : Shifting to COMBI MASK SETUP

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(+)

<L/R> : Updating displayed information

■ Contents of the Display item

MODULE : The version of data written in the Module microcomputer is indicated.
-PRG : The program version of the Module microcomputer is indicated.

-DAT : The data version of the Module microcomputer is indicated.

SEQ PRS : The version of data written in the Sequence LSI is indicated.

-PRG : The program version of the Sequence LSI is indicated.

-PIC : The Picture-data version of the Sequence LSI is indicated.

-SEQ : The sequence-data version of the Sequence LSI is indicated.

SERIAL : The serial number of the module is indicated.

DIG.EEP : The adjusted status of the EEPROM that is mounted on the DIGITAL Assy is indicated.

BACKUP: The adjusted status of the EEPROM for backup that is mounted on the SENSOR Assy is indicated.

[1-2] PANEL WORKS

• Data on operations, such as the accumulated pulse-meter counts, hour-meter count, power-on count, and temperature detected by the sensor, are displayed. No other layers are nested below this layer, and there are no adjustment items.

				1				5					10					15					20	1				25				30		32		
1				P	Α	Ν	Е	L		F	Α	С	Т						П	Ν			3	0	6	0	2		R	G	В	J	Н	В		
	ΑF	REA	۱1	P	Α	Ν	E	L		W	0	R	Κ	S																						
			2																																	
5			3			P	M		В	1					0	0	0	0	0	7		5		М												
			4			P	M		В	2					0	0	0	0	0	6	0	7		М												
			5			P	M		В	3					0	0	0	0	0	8	5	2		М												
			6			P	M		В	4					0	0	0	0	0	6	6	8		М												
			7			Р	M		В	5					0	0	0	0	0	7	3	3		М												
10			8																																	
			9			Н	R		М	Т	R				0	0	0	0	2	5	Н		2	0	М											
			Α			P		С	0	U	Ν	П			0	0	0	0	0	0	9	5		П	П	М	囯	S								
			В			Т	Ε	М	Р	1					+	2	7		4					7	0		8									
			С			С		S		R	G	В			2	0	0	0	1	0	3	2	5	1	1	2	2	3		0	K					
15			D																																	
16			Ε																																	
		_																		_	_						_							_		

■ Key operation

<DOWN> : Shifting to POWER DOWN

<UP> : Shifting to PANEL INFORMATION
<L/R> : Updating displayed information

—— Temperature unit is " °C (Centigrade) ".

■ Contents of the Display item

- PM-B1 to B5: The accumulated pulse-meter counts for the 5 blocks on the screen are indicated. (the lowest-order digit represents millions of pulses.)
- HR-MTR: The hour-meter value (accumulated power-on hours) is indicated.
- P-COUNT: The accumulated power-on count is indicated.
- TEMP1: The current panel temperature and the historical maximum temperature recorded in memory are indicated. The temperature unit is " °C (Centigrade) ".
- CLS-RGB: Data obtained from the color sensor are displayed in the order R, G, and B, with the status indication at the end.

CLS Status	OSD Indication
Function OFF	-OFF
Color sensor module non connection	-NC
Data abnormality	-INV
Data normal	-OK

Note:

Neither the color sensor value nor the status indication will be displayed if the color sensor function is set to ON in the ETC (+) layer beforehand.

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[1-3] POWER DOWN

• The power-down history is displayed. No other layers are nested below this layer.

■ Key operation

<DOWN> : Shifting to SHUT DOWN <UP> : Shifting to PANEL WORKS <L/R> : Updating displayed information

■ Contents of the Display item

- The last most 8 power-down histories are displayed with the hour-meter values that indicate the hours when power-downs occurred.
- When power-down is confirmed, the factor is displayed as "1st", "2nd", according to the accuracy order.
- The power-down history is not recorded when the power-down occurred at the same place and same time.

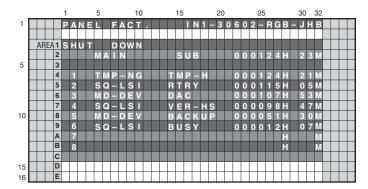
<Causes of power-down and corresponding OSD indications>

•			
Cause of power-down	OSD Indication	Cause of power-down	OSD Indication
POWER SUPPLY Unit	P-PWR	ADDRESS Assy	ADRS
SCAN Assy	SCAN	DC/DC converter for X drive	X-DCDC
5 V power for SCAN	SCN5V	X-SUS	X-SUS
DC/DC converter for Y drive	Y-DCDC	DIG-DCDC	D-DCDC
Y-SUS	Y-SUS	Unknown	UNKNOW

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[1-4] SHUT DOWN

• The shutdown history of panel section is displayed. No other layers are nested below this layer, and there are no adjustment items.



■ Key operation

<DOWN> : Shifting to PANEL-1 ADJ (+) <UP> : Shifting to POWER DOWN <L/R> : Updating displayed information

В

■ Contents of the Display item

- The shutdown history is displayed. The last most 8 shutdown histories are displayed with the hour-meter values that indicate the hours when shutdowns occurred.
- When there is detail information when shutdown occurred, the possible defective part is displayed as Sub information.
- The shutdown history is not recorded when the shutdown occurred at the same place and same time.

<Cause of shutdown and corresponding OSD Indication >

Cause of shutdown (MAIN)		Cause of shutdown (SUB)		
Main cause	OSD Indication	Sub cause	OSD Indication	
SQ LSI	SQ_LSI	Communication Error	RTRY	
_	_	Drive Stop	SQNO	
		Busy	BUSY	
		Version mismatching (H/S)	VER-HS	
		Version mismatching (H/M)	VER-HM	
		Version mismatching (H/I)	VER-HI	
MDU-DEVICE	MD-DEV	Digital EEPROM	EEPROM	
MDO-DEVICE	IVID-DEV	Backup EEPROM	BACKUP	
		DAC IC	DAC	
Abnormally in RST2 power supply	RST2	-	-	
Abnormally in panel temperature	TAID NO	High temperature of the panel	TMP-H	
Abriornially in parier temperature	TMP-NG	Low temperature of the panel	TMP-L	

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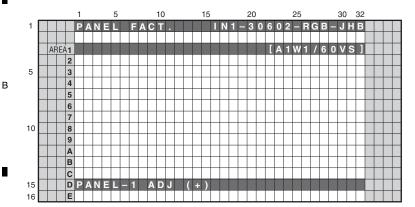
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[1-5] PANEL-1 ADJ (+)

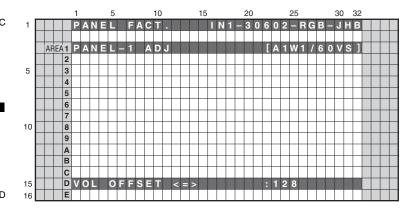
This is a page for settings for the driving voltage and AM radio countermeasures. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.

On third line of the screen, the white balance, ABL table, and drive sequence in the current status are displayed. (Items that have lower layers are the same.)



■ Key operation

<DOWN> : Shifting to PANEL-2 ADJ (+) <UP> : Shifting to POWER DOWN <SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the adjustment/setting value

<VOL+> : Adding by 10 to the adjustment/

setting value

<VOL-> : Subtracting by 10 from the

adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

When entered to this layer, panel white balance and the gamma setting become the default temporarily for setting that is necessary for voltage adjustment. Turn off the noise option function.

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<Next nested layer of PANEL-1 ADJ (+)>

No.	Item	OSD Indication	Variable Range	Setting Value	RS-232C Command	Remarks
1	Vsus voltage	VOL SUS <=>	000 to 255	Factory	VSU	
2	Vysnofs voltage	VOL OFFSET <=>		adjustment value	VOF	
3	Vyprst voltage	VOL RST P <=>		value	VRP	
4	Vxpofs1 voltage	VOL XPOFS1 <=>			VX1	
5	Vxpofs2 voltage	VOL XPOFS2 <=>			VX2	
6	Vyknofs1,2 voltage	VOL YKNOFS1 D <=>			V1F	
7	Vyknofs3 voltage	VOL YKNOFS3 D <=>			V3F	
8	Vyknofs4 voltage	VOL YKNOFS4 D<=>			V4F	
9	Δ Vyknofs1,2/3/4	VOL YKNOFSA D<=>			VYF	
10	First reset (wedge width)	RESET1ST_KSB <=>	112 to 144	128	R1K	Factory use
11	Second reset (wedge width)	RESET2ND_KSB <=>			R2K	item
12	1SF - Y sus tail (wedge width)	YSTL_1SF_KSB <=>			Y1K	
13	1SF - Y sus tail (resonance down width)	YSTL_1SF_HZ <=>			Y1Z	
14	3SF and later - first X sus (resonance up width)	XSUS_1ST_B <=>			X1B	
15	2SF - second Y sus (resonance up width)	YSUS_2ND_B <=>			Y2B	
16	2SF - third X sus (resonance up width)	XSUS_3RD_B <=>			ХЗВ	
17	2SF - repeat Y sus (resonance up width)	YSUS_B <=>			YSB	
18	2SF - repeat X sus (resonance up width)	XSUS_B <=>			XSB	
19	3SF and later - Y sus tail (wedge width)	YSTL_KSB <=>			YTK	
20	3SF and later - Y sus tail (resonance down width)	YSTL_HZ <=>			YTZ	
21	2SF - Y sus tail (wedge width)	YSTL_2SF_KSB <=>			Y2K	
22	2SF - Y sus tail (resonance down width)	YSTL_2SF_HZ <=>			Y2Z	
23	3SF and later (2 pulses of SSF) - Y sus tail (wedge width)	YSTL_FMR_KSB <=>			YNK	
24	Timing between Scan and Address	SCAN ADRS ADJ <=>]		SAT	
25	SUS frequency (AM radio anti-jamming)	SUS FREQ <=>	MODE1 to 8	MODE1	SFR	Note

Note: It is necessary to turn OFF and ON the power for reflecting the setting change.

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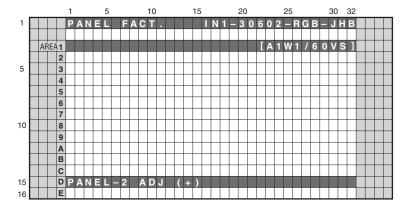
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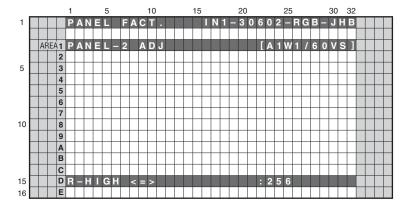
[1-6] PANEL-2 ADJ (+)

• White balance of the panel can be adjusted. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



■ Key operation

<DOWN> : Shifting to PANEL FUNCTION (+) <UP> : Shifting to PANEL-1 ADJ (+) <SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the

adjustment/setting value

<VOL+> : Adding by 10 to the adjustment/ setting value

<VOL-> : Subtracting by 10 from the

adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

<Next nested layer of PANEL-2 ADJ (+)>

No.	Item	OSD Indication	Variable Range	Setting Value	RS-232C COMMAND	Remarks
1	Panel WB R highlight	R-HIGH <=>	000 to 999	Factory	PRH	
2	Panel WB G highlight	G-HIGH <=>		adjustment value	PGH	
3	Panel WB B highlight	B-HIGH <=>		value	PBH	
4	Panel WB R lowlight	R-LOW <=>	000 to 999		PRL	
5	Panel WB G lowlight	G-LOW <=>			PGL	
6	Panel WB B lowlight	B-LOW <=>			PBL	
7	ABL	ABL <=>	000 to 255		ABL	

The ABL/WB adjustment values are grouped into three tables with ABL and four tables with WB, depending on the drive sequences. The adjustment value for the actually driven table is displayed. The number of the adjustment table and the drive sequence currently selected are displayed on the right side of the third line as the On-Screen display.

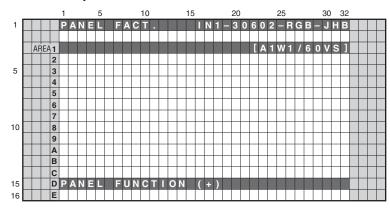
<ABL/WB adjustment table and Drive sequence>

ABL Table	WB Table	OSD Indication	Drive Sequence	OSD Indication	Remarks
TABLE 1	TABLE 1	A1W1	VIDEO-60Hz	60VS	
			PC-60Hz	60PS	
TABLE 2	TABLE 2	A2W2	VIDEO-48Hz	48VS	
			VIDEO-50Hz	50VS	
TABLE 3	TABLE 3	A3W3	VIDEO-72Hz	72VS	
			VIDEO-75Hz-1	75V1	
	TABLE 4	A3W4	VIDEO-75Hz-2	75V2	Correspond to MASK indication only

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[1-7] PANEL FUNCTION (+)

• A level setting for panel degradation correction can be made. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



■ Key operation

<DOWN> : Shifting to ETC.(+)
<UP> : Shifting to PANEL-2 ADJ (+)
<SET> : Shifting to the next nested layer

■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the

adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

В

<Next nested layer of PANEL FUNCTION (+)>

No.	Item	OSD Indication	Variable Range	Setting Value	RS-232C COMMAND	Remarks
1	R deterioration correction LEVEL	R-LEVEL <=>	Lv-10 to 7	Lv-3	RRL	Factory use
2	G deterioration correction LEVEL	G-LEVEL <=>	1	Lv-2	RGL	item (Note)
3	B deterioration correction LEVEL	B-LEVEL <=>]	Lv-0	RBL	
4	L1 address	ADDRESS L1 <=>	PH0 to 9	PH2	AP0	
5	L2 address	ADDRESS L2 <=>	1	PH2	AP0]
6	L3 address	ADDRESS L3 <=>]	PH3	AP1	
7	L4 address	ADDRESS L4 <=>		PH1	AP1	
8	U1 address	ADDRESS U1 <=>	1	PH2	AP2	
9	U2 address	ADDRESS U2 <=>	1	PH2	AP2	
10	U3 address	ADDRESS U3 <=>		PH3	AP3	
11	U4 address	ADDRESS U4 <=>	1	PH1	AP3	
12	Streaking correction	STK MODE <=>	OFF to MODE1 to 8	MODE1	SKM	
13	Black display mode	FULL BLACK <=>	OFF to MODE1	MODE1	FBM	
14	Panel Rx characteristic	PANEL RX <=>	000 to 999	Factory	PRX	Factory use
15	Panel Ry characteristic	PANEL RY <=>	000 to 999	adjustment	PRY	item
16	Panel Gx characteristic	PANEL GX <=>	000 to 999	value	PGX	
17	Panel Gy characteristic	PANEL GY <=>	000 to 999		PGY	1
18	Panel Bx characteristic	PANEL BX <=>	000 to 999		PBX	1
19	Panel By characteristic	PANEL BY <=>	000 to 999		PBY	1
20	Color sensor R coefficient	CLS R <=>	000 to 255	128	CSR	1
21	Color sensor G coefficient	CLS G <=>	000 to 255	128	CSG	1
22	Color sensor B coefficient	CLS B <=>	000 to 255	128	CSB	1

Note: It is necessary to turn OFF and ON the power for reflecting the setting change.

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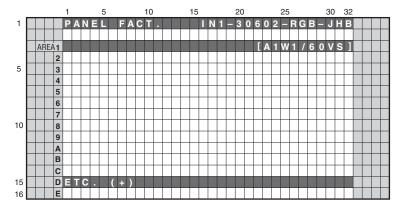
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■ 2 **■** 3 **■** 4

[1-8] ETC. (+)

• Clearance of various log data for the panel and changing of settings for which setting data were not stored upon last update can be performed.

Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.

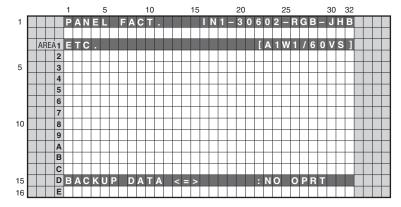


■ Key operation

<DOWN> : Shifting to RASTER MASK SETUP

(+)

<UP> : Shifting to PANEL FUNCTION (+)<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the

adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

<Next nested layer of ETC (+)>

No.	Item	OSD Indication	Processing Contents	RS-232C COMMAND	Remarks
1	Backup EEPROM data	BACKUP DATA <=>	NO OPRT (No operation) TRANSFER (Backup data transmission)	ВСР	
2	Digital EEPROM data	DIGITAL EEPROM <=>	NO OPRT (No operation) REPAIR (Adjustment is complete) DELETE (Adjustment is not complete)	FAJ/UAJ	
3	PD history	PD INFO. <=>	NO OPRT (No operation)	CPD	
4	SD history	SD INFO. <=>	CLEAR (Data clear)	CSD	
5	HOUR METER	HR-MTR INFO. <=>		СНМ	
6	Pulse meter	PM/B1-B5 <=>		СРМ	
7	PON counter	P COUNT INFO. <=>		CPC	
8	Maximum temperature	MAX TEMP. <=>		CMT	
9	Mirror reversing display	MIRROR <=>	Mirror reversing display OFF MODE1 (Right and left reversing) MODE2 (Top and bottom reversing) MODE3 (Right and left, Top and bottom reversing)	MIR	The indication on the menu is also highlighted. The setting is canceled upon power-off.
10	Color sensor mode	CLS <=>	Color sensor operation OFF Color sensor operation ON	CSF	

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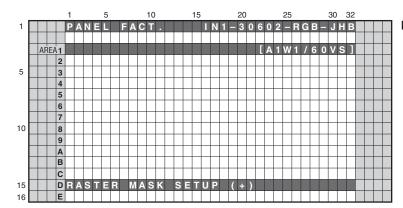
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[1-9] RASTER MASK SETUP (+)

• This menu set the RASTER MASK and the drive sequence at RASTER MASK state. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



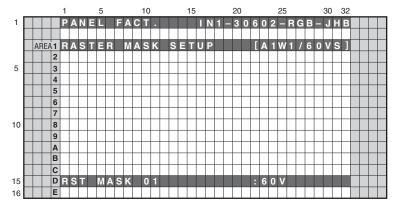
■ Key operation

<DOWN> : Shifting to PATTERN MASK SETUP

(+)

<UP> : Shifting to ETC. (+)

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the adjustment/setting

value and shifting to the upper layer

• The changed sequence and the ABL/WB table are retained until the mask is turned off.

<Next nested layer of RASTER MASK SETUP (+)>

No.	Item	OSD Indication	MASK Display Sequence	RS-232C COMMAND	Remarks
1	Mask off	MASK OFF			
2	Display raster mask 01	RST MASK 01 <=>	<=>50V<=>60V<=>60P<=>	MKR/VFQ	
			72V<=>75V1<=>75V2<=>		
26	Display raster mask 25	RST MASK 25 <=>			

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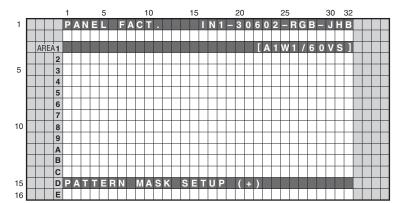
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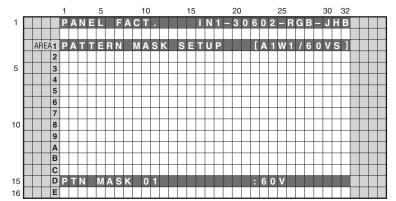
[1-10] PATTERN MASK SETUP (+)

• This menu set the PATTERN MASK and the drive sequence at PATTERN MASK state. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



■ Key operation

<DOWN> : Shifting to COMBI MASK SETUP (+) <UP> : Shifting to RASTER MASK SETUP (+) <SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next MASK
<UP> : Shifting to the previous MASK
<RIGHT> : Changing MASK sequence (+)
<LEFT> : Changing MASK sequence (-)
<SET> : Determining the adjustment/setting
value and shifting to the upper layer

• The changed sequence and the ABL/WB table are retained until the mask is turned off.

<Next nested layer of PATTERN MASK SETUP (+)>

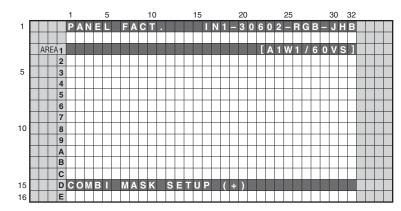
No.	Item	OSD Indication	MASK Display Sequence	RS-232C COMMAND	Remarks
1	Mask off	MASK OFF			
2	Display raster mask 01	PTN MASK 01 <=>		MKS/VFQ	
			72V<=>75V1<=>75V2<=>		
50	Display raster mask 49	PTN MASK 49 <=>			

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[1-11] COMBI MASK SETUP (+)

• This menu set the COMBI MASK and the drive sequence at COMBI MASK state. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.

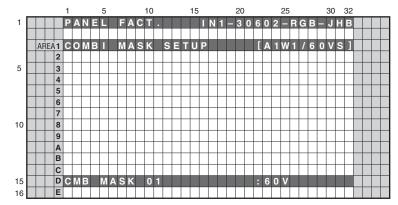


■ Key operation

<DOWN> : Shifting to PANEL INFORMATION
<UP> : Shifting to PATTERN MASK SETUP

(+)

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the adjustment/setting

value and shifting to the upper layer

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• The changed sequence and the ABL/WB table are retained until the mask is turned off.

<Next nested layer of COMBI MASK SETUP (+)>

No.	ltem	OSD Indication	MASK Display Sequence	RS-232C COMMAND	Remarks
1	Mask off	MASK OFF			
2	Display raster mask 01	CMB MASK 01 <=>	<=>50V<=>60V<=>60P<=>	MKC/VFQ	
			72V<=>75V1<=>75V2<=>		
18	Display raster mask 17	CMB MASK 17 <=>			

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[2] PANEL MAIN FACT.

■ Operation Items in the PANEL MAIN FACT. Menu

On the PANEL MAIN FACT. menu screen, acquisition of information on and settings for the display main unit can be performed, as shown in the table below:

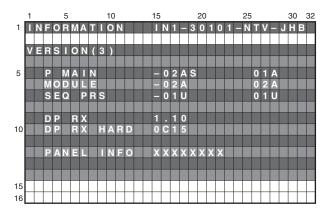
No.	Indication	Description of functions
[2-1]	VERSION (3)	To indicate the versions of the microcomputers for the display (incl. those for the display main unit)
[2-2]	PM NG INFO.	To indicate the shutdown history of the display main unit
[2-3]	PM STATE INFO.	To indicate temperatures of the display main unit, state of the fans, brightness, and model information
[2-4]	DP_RX INFO.	Data on the DP receiver
[2-5]	PM_SETUP (+)	To clear the history and perform function settings whose data are not retained after the unit is turned off
[2-6]	PM_BEZEL_SETUP	To perform the bezel setup
[2-7]	PM_NG_CLEAR	To clear the shutdown history

■ Description of Indications on Each Layer

[2-1] VERSION (3)

The versions of the microcomputers for the display (incl. those for the display main unit) are indicated on the VERSION (3) screen. No other layers are nested below this layer, and there are no adjustment items.

Although the description on the VERSION (3) screen is included in the PANEL MAIN FACT. section, this screen actually belongs to the INFORMATION layer.



■ Contents of the Display item

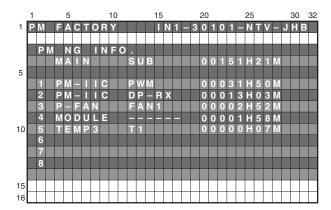
- P MAIN: Version of the writing data for the Panel Main microcomputer
- MODULE: Version of the writing data for the Module microcomputer
- SEQ PRS: Version of the writing data for the sequence LSI
- DP RX: Version of the writing data for the DP receiver firmware
- DP RX HARD: Version of the hardware for the DP receiver
- PANEL INFO: Information on the display panel

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[2-2] PANEL MAIN NG INFORMATION

The shutdown history of the display main unit is indicated on the PM NG INFO. screen. No other layers are nested below this layer.



■ Key operation

<DOWN> : Shifting to PM STATE INFO. <L/R> : Updating displayed information

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■ Contents of the Display item

- The last 8 shutdown logs for the display are displayed with the latest log at the top and with hour-meter values that indicate when shutdowns occurred.
- If there was detailed information when a shutdown occurred, the possible defective part is displayed as Sub information.
- The shutdown history is not recorded if the shutdown was initiated for the same reason and at the same time as the previous shutdown.

<Cause of shutdown and corresponding OSD Indication >

Cause of shutdown (MAIN)		Cause of shutdown (SUB)		
Main cause	OSD Indication	Sub cause	OSD Indication	
D-Amp/Short-circuiting of the	AUDIO	A_NG	AUDIO	
speakers		OTW	OTW	
Module microcomputer	MODULE	-		
IIC communication of the Panel	PM-IIC	DP_Rx	DP_Rx	
Main microcomputer		PWM_Processor	PWM	
Abnormality in the fans	P-FAN	FAN_NG_A="H"	FAN1	
		FAN_NG_B="H"	FAN2	
High temperature of the display unit	TEMP3	High temperature at Temperature Sensor 1	T1	
		High temperature at Temperature Sensor 2	T2	
Power supply of the POWER SUPPLY Unit	MB-POW	VCC power decreaseof the MAIN Assy	RELAY	

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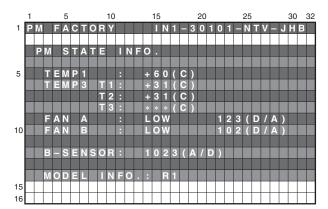
-

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[2-3] PANEL MAIN STATE INFORMATION

The display (unit) temperatures detected by the temperature sensors, FAN rotating status, the value acquired by the Room Light Sensor, and settings for the model are indicated. No other layers are nested below this layer.



■ Key operation

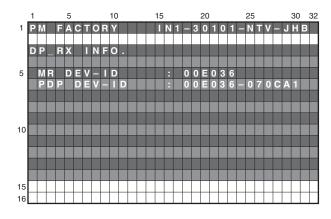
<DOWN> : Shifting to DP_RX INFO. <UP> : Shifting to PM NG INFO. <L/R> : Updating displayed information

■ Contents of the Display item

- TEMP1: The current display (panel) temperature is indicated. Temperature is in °C (Centigrade).
- TEMP3, T1-T2, T3 (reserved): The current display (unit) temperature is indicated. Temperature is in °C (Centigrade).
- FAN A, B: Controlled state of the fans (HIGH, LOW, STOP), D/A value
- B-SENSOR: A/D value of the Room Light Sensor
- MODEL INFO.: Model information, such as setup status of the bezel

[2-4] DP-RX INFORMATION

This screen is for use by engineers. No other layers are nested below this layer.



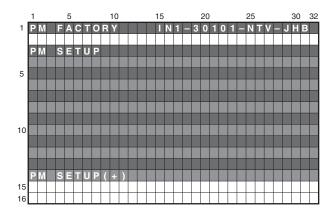
■ Key operation

<DOWN> : Shifting to PM_SETUP (+). <UP> : Shifting to PM STATE INFO. <L/R> : Updating displayed information

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[2-5] PANEL MAIN SETUP (+)

The shutdown logs can be cleared, and temporary settings for functions that you do not wish to retain after the unit is turned off can be performed. Pressing the ENTER/SET key shifts the screen to the next nested layer below for item selection.



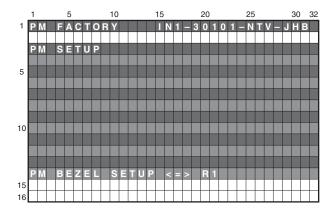
■ Key operation

<UP> : Shifting to DP_RX INFO.
<ENTER/SET> : Shifting to the next nested layer

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■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item

<RIGHT> : Changing the setting value upward (+) <LEFT> : Changing the setting value upward (-) <ENTER/SET> : Determining the changed value and return to the layer above

<Next nested layer of PANEL MAIN SETUP (+)>

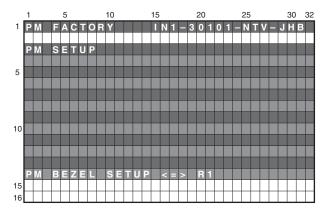
No.	Item	OSD Indication	Content	RS-232C COMMAND	Remarks
1	Bezel setting		NO OPRT (No operation) R1 (Bezel setting 1) Black R2 (Bezel setting 2) White R3 (Bezel setting 3) Beige EP (For use by engineers)	BZS	
2	SD history clear (panel main)		NO OPRT (No operation) CLEAR (Clearance of data)	CAL	

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[2-6] PANEL MAIN BEZEL SETUP

Setup of the bezel can be performed on the PANEL MAIN BEZEL SETUP screen.



■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item

<RIGHT> : Changing the setting value upward (+) <LEFT> : Changing the setting value upward (-) <ENTER/SET> : Determining the changed value and return to the layer above

Select the bezel setup setting, using the L or R key, then press the SET key to determine the setting. When NO OPT is selected, bezel setup is not performed.

Each time the L or R key is pressed, setup settings are changed, as shown below:

$$ightharpoonup R1 \leftrightarrow R2 \leftrightarrow R3 \leftrightarrow EP \leftrightarrow NO OPT \leftarrow$$

"NO OPT" is selected immediately after the PANEL MAIN BEZEL SETUP screen is displayed.

R1: The bezel setup is performed according to ROM table 01. (Default)

R2: The bezel setup is performed according to ROM table 02.

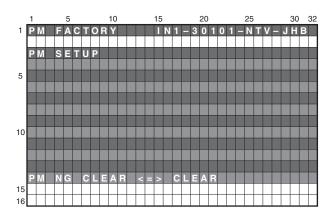
R3: The bezel setup is performed according to ROM table 03.

EP: The bezel setup is performed according to the EEPROM table. (For use by engineers)

NO OPT: Bezel setup is not performed.

D [2-7] PANEL MAIN NG CLEAR

The shutdown logs can be cleared on the PM NG CLEAR screen.



■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item

<RIGHT> : Changing the setting value upward (+) <LEFT> : Changing the setting value upward (-) <ENTER/SET> : Determining the changed value and return to the layer above

"NG CLEAR" denotes clearing of the SD logs managed by the Panel Main microcomputer.

Select the setting, using the L or R key, then press the ENTER/SET key to clear the data. When NO OPT is selected, NG CLEAR is not performed.

Pressing the L or R key toggles between CLEAR and NO OPT, as shown below:

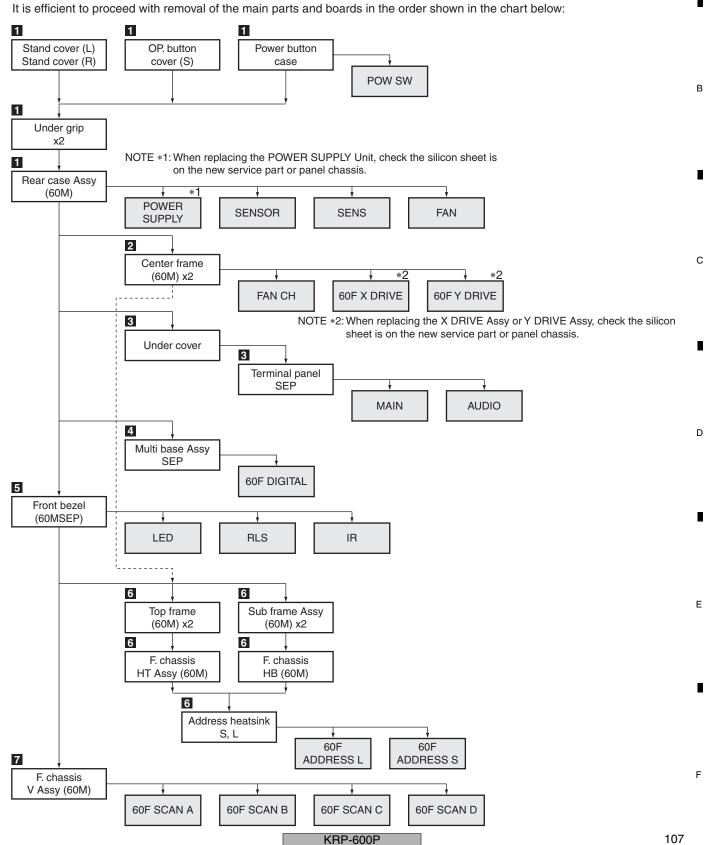
CLEAR → NO OPT

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Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Flowchart of removal order for the main parts and boards

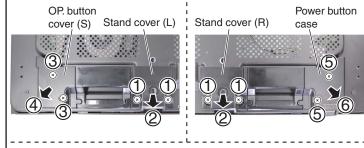


Disassembly

1 Rear Case Assy (60M)

- Stand cover (L) and (R)
- (1) Remove the four N grip screws. (ABA1381)
- 2 Remove the stand covers (L) and (R).
- OP. button cover (S)
- Remove the two screws. (ABA1379)
- (4) Remove the OP. button cover (S).
- Power button case
- (5) Remove the two screws. (ABA1379)
- (6) Remove the power button case.





• Screw tightening order

The other screws are random order.







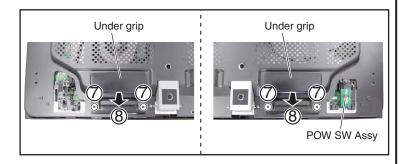
Under grip

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- (7) Remove the four N grip screws. (ABA1381)
- (8) Remove the two under grips.

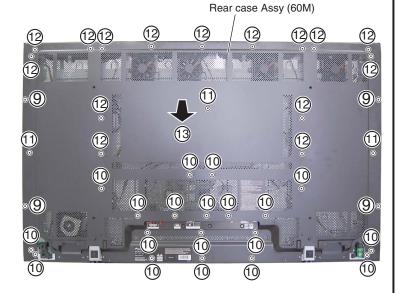


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Rear case Assy (60M)

- (9) Remove the four screws. (ABA1380)
- (10) Remove the 19 N grip screws. (ABA1381)
- (11) Remove the three screws. (ABA1379)
- (12) Remove the 15 N grip screws. (ABA1381)
- (13) Remove the rear case Assy (60M).





• Screw tightening order

The other screws are random order.

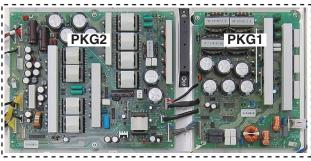


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Notes on Removing the POWER SUPPLY Unit

1. Construction of the POWER SUPPLY Unit

The POWER SUPPLY Unit comprises two boards, which must be replaced at the same time. (These boards are delivered as a set if ordered.)



POWER SUPPLY Unit

2. Discharge of residual electric charge

Immediately after the power cord is unplugged, residual electric charge remains for about 3-5 minutes in the capacitor inside the POWER SUPPLY Unit.

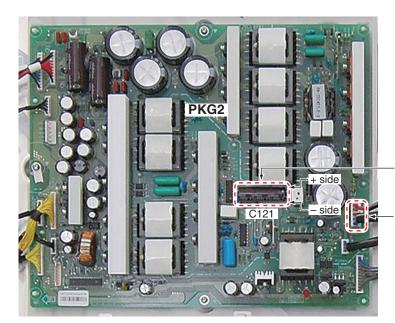
Before removing the POWER SUPPLY Unit, make sure that residual electric charge has fallen to a safe level.

How to discharge residual electric charge rapidly

Discharge residual electric charge by connecting two 220 Ω (10 W) forced discharging resistors (440 Ω in total,) one to each end, of C121.

<How to remove the POWER SUPPLY Unit>

- ① Make sure that the power cord is unplugged. Check the voltage of both ends of C121 on the PKG2, using a tester.
- 2 Wait until the voltage at both ends of C121 has fallen to 5 V or less.
- ③ When the voltage becomes less than 5 V, disconnect the connectors of the POWER SUPPLY Unit then remove it.



Points of checking residual electric charge:

After making sure that the voltage of both ends of C121 has fallen to $5\,\mathrm{V}$ or less, disconnect the PFC connector.

PFC connector

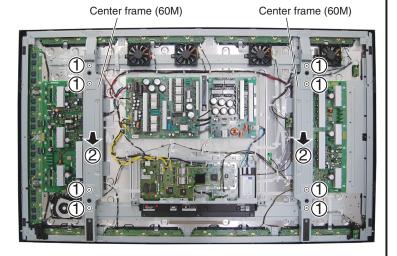
P14

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Note: The wiring shown in the photo is different from the actual wiring, because the product in the photo is a prototype. Upon servicing, be sure to restore the original wiring of the unit after repair work.

(1) Remove the eight screws. (AMZ40P080FTB)

2 Remove the two center frames (60M).



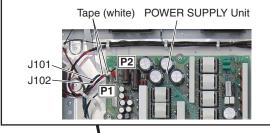


FAN CH Assy

SENS Assy

60F X DRIVE Assv

The J101 and J102 cables require correct orientation for connection. Connect the connectors with white tape to the POWER SUPPLY Unit.



GND Blue

AC Inlet

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FAN Assy SENSOR Assy

3 MAIN and AUDIO Assys

Note: The wiring shown in the photo is different from the actual wiring, because the product in the photo is a prototype. Upon servicing, be sure to restore the original wiring of the unit after repair work.

Under cover

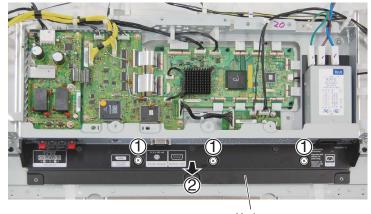
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- (1) Remove the three N grip screws. (ABA1381)
- (2) Remove the under cover.



Under cover



Terminal panel SEP

- (1) Remove the two screws. (BPZ30P080FTB)
- (2) Remove the one screw. (AMZ30P060FTB)
- (3) Remove the one screw. (BMZ30P060FTB)
- (4) Remove the two hexagon headed screws. (ABA1382)
- (5) Remove the four N grip screws. (ABA1381)

(6) Remove the three N grip screws. (ABA1381) (7) Remove the two screws. (AMZ30P060FTB)

Note:

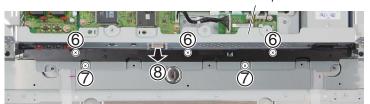
Do not use an electric screwdriver.

If the screw is over-tightened, the screw thread may be damaged.





Terminal panel SEP



Screw tightening order

The other screws are random order.

8 Remove the terminal panel SEP.





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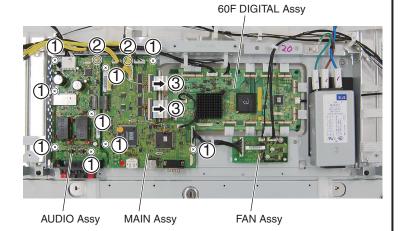
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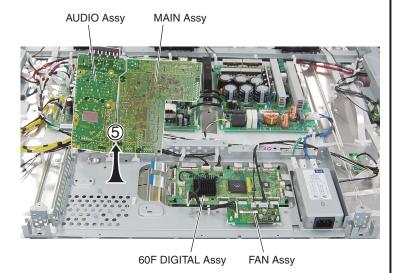
MAIN and AUDIO Assys

- Remove the nine screws. (PMB30P060FNI)
- 2 Release the two PCB spacers (reuse).
- 3 Disconnect the two flexible cables.
- (4) Disconnect cables, connectors, as requied.





(5) Lift the MAIN and AUDIO Assys to the direction of the arrow.



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4 60F DIGITAL Assy

Note: The wiring shown in the photo is different from the actual wiring, because the product in the photo is a prototype. Upon servicing, be sure to restore the original wiring of the unit after repair work.

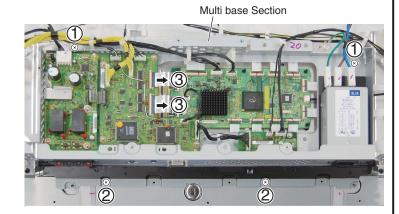
Note:

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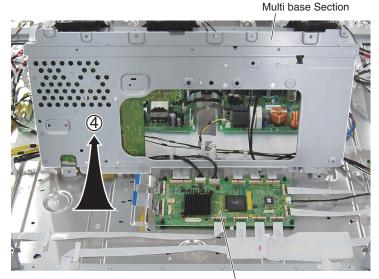
When you remove whole Multibase Section, it is not necessary to remove terminal panel SEP.

- (1) Remove the two screws. (ABA1351)
- (2) Remove the two screws. (AMZ30P060FTB)
- 3 Disconnect the two flexible cables.





(4) Lift the multi base section to the direction of the



60F DIGITAL Assy

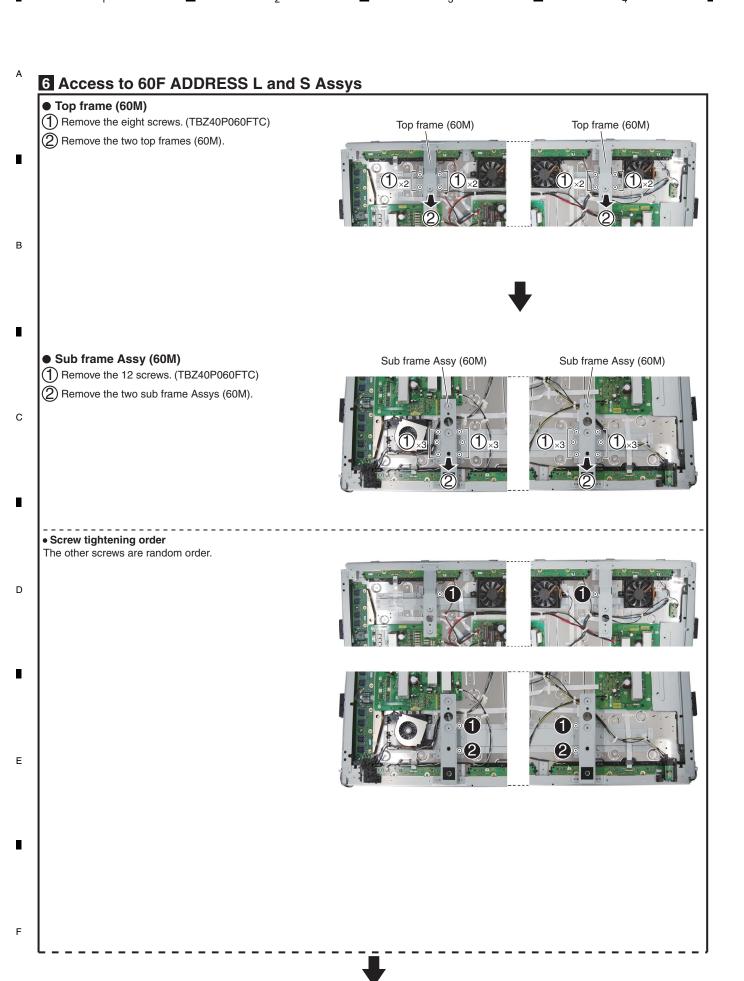
• Screw tightening order





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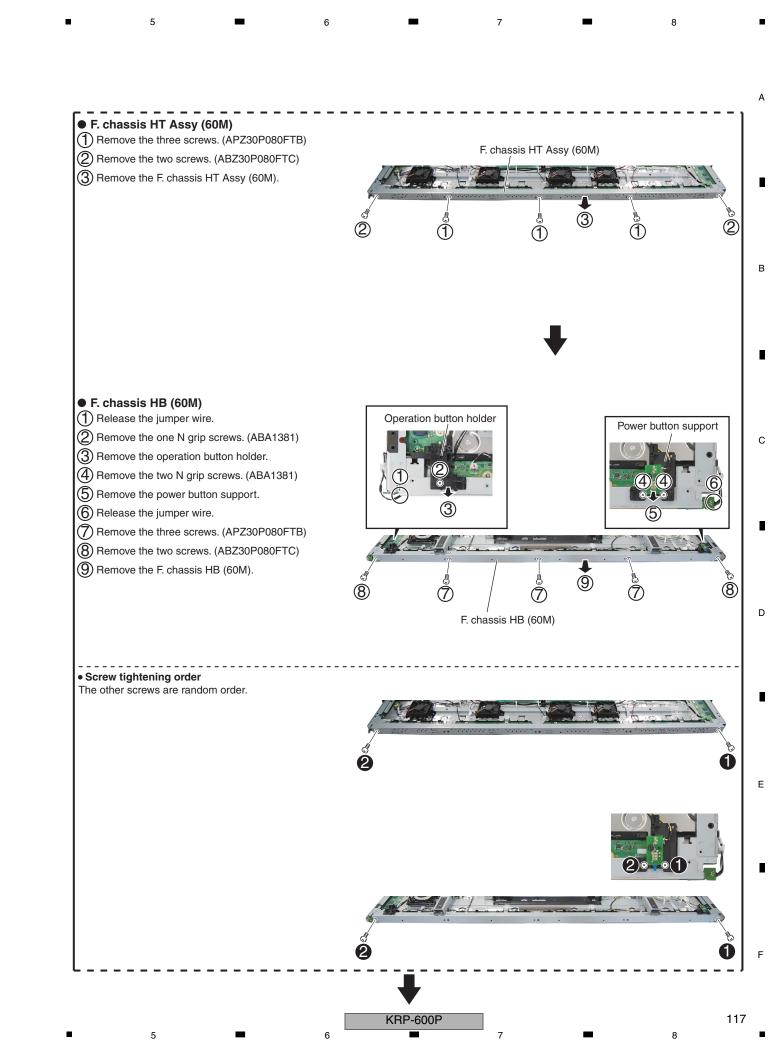
5 Front Bezel (60MSEP) (1) Remove the five rivets. Pull the lower part of the front bezel (60MSEP) toward you and out. Front bezel (60MSEP) Remove the front bezel (60MSEP), by pulling it upward. 1 1 1 Front side When assembling the front bezel, tighten this rivet first. Rivet Turn it not to press the rivet. (Because when the rivet presses, fit in once again.) Е LED Assy RLS Assy IR Assy KRP-600P 115

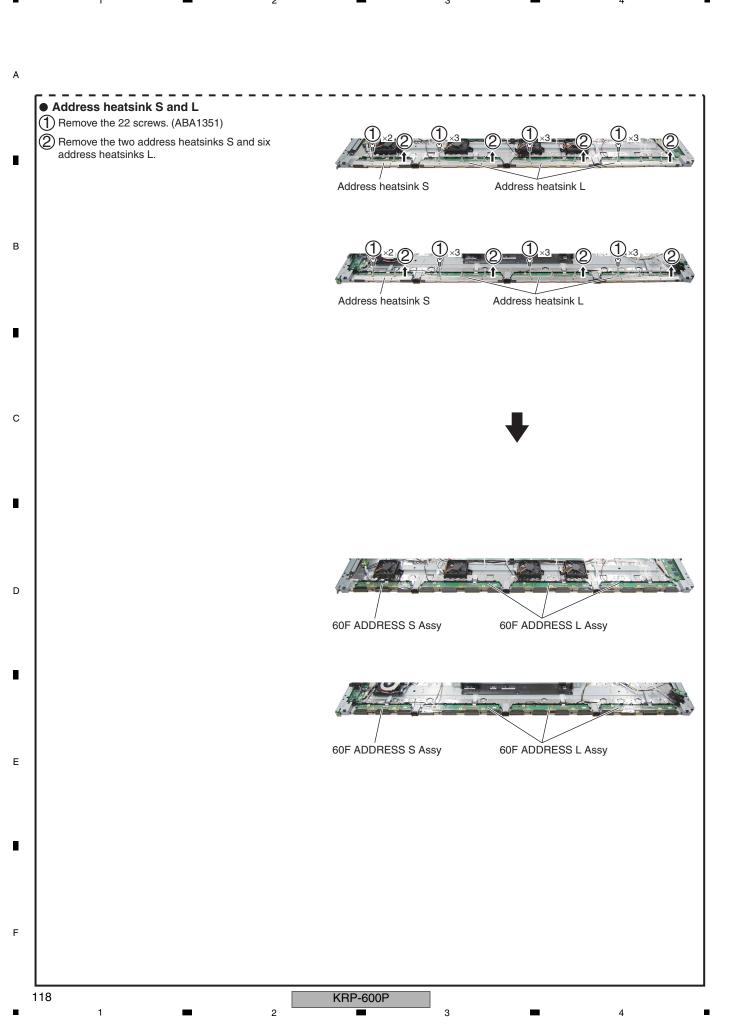


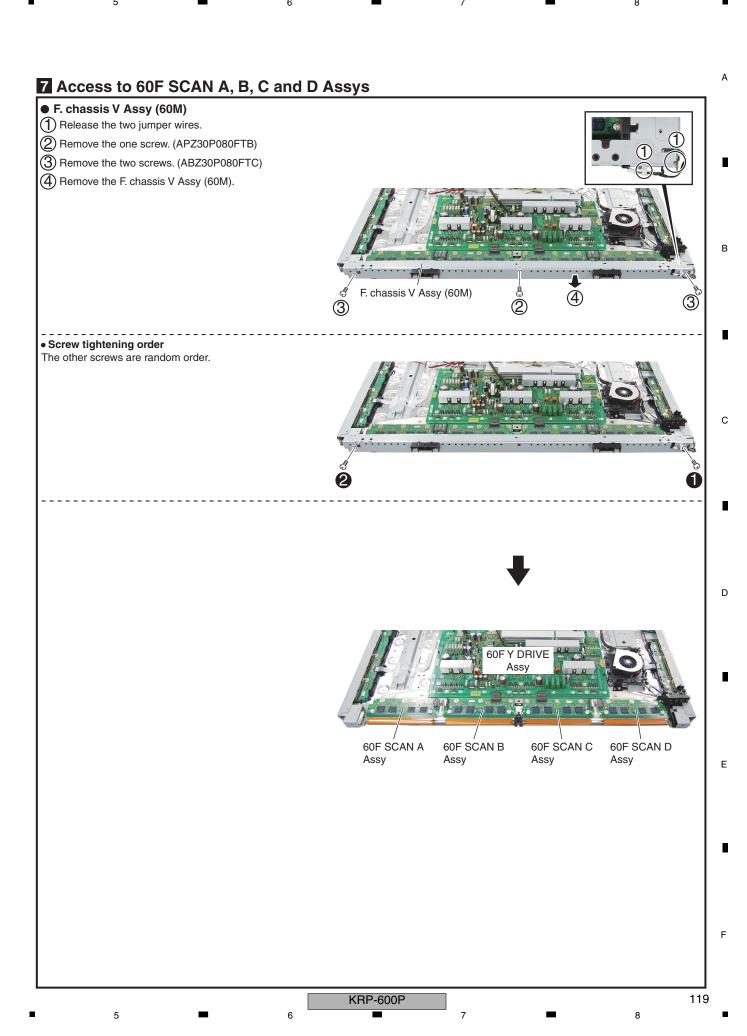
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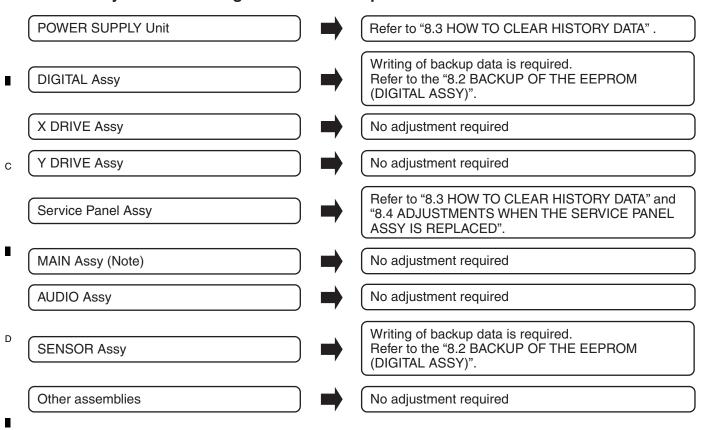
8. EACH SETTING AND ADJUSTMENT



- 1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
- 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- 3. Use a stable AC power supply.

8.1 ADJUSTMENT REQUIRED WHEN THE UNIT IS REPAIRED OR REPLACED

When any of the following assemblies is replaced



Note: After replacing the MAIN Assy, be sure to perform the FINAL SETUP.

To perform the FINAL SETUP for the display main unit and module via the RS-232C connector on the display, set the unit to Standalone Operation mode, by issuing the SYSS00 command, then issue the FAY command then FSP command. (Common to models of any size and for any destination) To perform the FINAL SETUP of the entire system, i.e., the display and the Media Receiver (MR), input commands via the RS-232C connector on the MR in System Operation mode. For details, refer to the service manual of the Media Receiver.

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■ When any of the following parts is replaced

Notes on replacing parts

For the parts described in the list below, replacement is required for the whole Assy, not only the defective part. If any part listed below is identified as defective and needs replacement, replace the whole Assy, and make necessary adjustments after replacement.

	Assy Name	Parts that Require Whole-Assy Replacement			
PCB Assy No.		Ref No.	Function Name	Part No.	
AWV2538	DIGITAL Assy	IC3302	Flash ROM	AGC1069	
AVV V 2550	DIGITAL Assy	IC3601	Flash UCOM	AGC1068	
AWV2597	X DRIVE Assy	Parts of X D-D CON BLOCK			
AWV2598	Y DRIVE Assy	Parts of Y VF D-D CON BLOCK 1 Parts of Y MAIN D-D CON BLOCK 1 Parts of Y MAIN D-D CON BLOCK 2			
	MAIN Assy	IC5001	Display port Rx IC	GM68020H-CG-K	
AWW1393		IC5003	EEPROM	S25FL016A0LMF013	
		IC5005	EEPROM	M2404HEPROM	
		IC7001	Flash UCOM	MB91F356B-G-SPE1-K	
		IC7003	EEPROM	BR24L02FJ-W	

Reason: The whole Assy must be replaced, because adjustments and data rewriting for the Assy at the level of production line are required.

For the parts described in the table below, replacement of individual parts is difficult, because a heat pad is provided under the bottom of the ICs.

	Assy Name	Parts that Replacement is Possible			
PCB Assy No.		Ref No.	Function Name	Part No.	
AWW1393		IC4501	Regulator IC	NJM2871BF05	
		IC4503	Regulator IC	PQ025ENA1ZPH	
		IC4504	Regulator IC	NJM2846DL3-18	
		IC7004	Regulator IC	NJM2846DL3-33	
AWW1398		IC8331	Regulator IC	NJM2846DL3-33	
	AUDIO Assy	IC8401	Digital Amp	TAS5122DCA	
AWW1394	W1394 FAN Assy	IC1201	Regulator IC	PQ200WNA1ZPH	
		IC1202	Regulator IC	PQ200WNA1ZPH	

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The assembly must be replaced as a unit, and no **POWER SUPPLY Unit** part replacement is allowed. No adjustment required MAIN Assy No adjustment required **AUDIO Assy** No adjustment required **DIGITAL Assy** No adjustment is required after replacement of parts other than those shown in "8.5 ADJUSTMENT X DRIVE Assy WHEN THE DRIVE ASSYS ARE REPLACED. No adjustment is required after replacement of parts Y DRIVE Assy other than those shown in "8.5 ADJUSTMENT WHEN THE DRIVE ASSYS ARE REPLACED. **ADDRESS Assy** No adjustment required **SENSOR Assy** No adjustment required Other assemblies No adjustment required

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8.2 BACKUP OF THE EEPROM (DIGITAL ASSY)

Outline

Adjustment data are stored in the EEPROM on the DIGITAL Assy in the production process. Those adjustment data are also automatically stored in the EEPROM (for backup) on the SENSOR Assy.

If the DIGITAL Assy is replaced, those adjustment data for backup can be copied from the EEPROM on the SENSOR Assy to a new DIGITAL Assy.

Backed up data

- Drive voltage adjustment value
- Panel white balance adjustment value
- Drive waveform adjustment value
- Hour-meter count

- Pulse-meter count
- P-ON counter value

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- Serial No.
- PD/SD histories

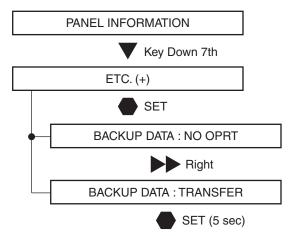
■ How to copy backup data

1. When the DIGITAL Assy is replaced with one for service (usual service)

Immediately after the DIGITAL Assy is replaced, the EEPROM on the DIGITAL Assy is in the status "adjustment not completed," and the EEPROM for backup on the SENSOR Assy is in the status "adjustment completed." The LED on the main unit warns you that the adjustment data in the EEPROM for backup have not been copied to the EEPROM on the DIGITAL Assy, by lighting the red LED and flashing the blue LED. In such a case, the adjustment data for backup can be used by copying the data to the EEPROM on the DIGITAL Assy, with the following procedures:

(1) Copying, using the Factory menu

- 1 Turn on the power.
- 2 Enter the Panel Factory mode.
- ③ Display the PANEL INFORMATION page, then check if "NO DATA!" is set for "DIG. EEP" and "ADJUSTED" is set for "BACKUP".
- 4 Copy the backup data, as shown in the figure below.



- ⑤ Check if "ADJUSTED" is set for "DIG. EEP" on the PANEL INFORMATION page.
- 6 Turn off the power.

(2) Copying, using the RS-232C commands

- 1 Turn on the power.
- ② Issue the FAY command.
- ③ With the QS2 command, confirm that the main unit adjustment flag is "adjustment not completed" and that the adjustment backup flag is "adjustment completed."
- 4 Issue the BCP command to transfer the data stored in the EEPROM for backup.
- ⑤ With the QS2 command, confirm that the main unit adjustment flag becomes "adjustment completed."
- 6 Turn off the power.

Note: If both the DIGITAL and SENSOR Assys are to be replaced, replace the SENSOR Assy first in order to store the backup data. Then turn the unit on then back off again, then replace the DIGITAL Assy.

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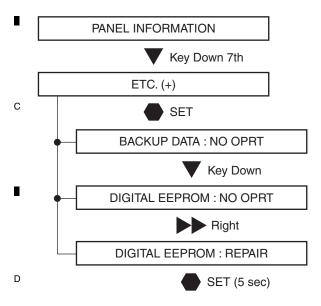
■ 7 **■** 8

2. When manual adjustment is required after the DIGITAL Assy is replaced with one for service

If backup data cannot be transferred to the DIGITAL Assy because of defective parts, etc., after the DIGITAL Assy is replaced and manual adjustment is performed, those manually adjusted data can be registered as adjusted data with the following procedures. Once the data on the DIGITAL Assy are registered as adjusted data, the adjustment data for backup will be automatically updated each time the unit is turned off. Therefore, if a DIGITAL Assy with adjusted data is mounted on the unit, the following procedures are not required, even after manual adjustment.

(1) Copying, using the Factory menu

- 1) Turn on the power.
- 2 Enter the Panel Factory mode.
- ③ Display the PANEL INFORMATION page, then check if "NO DATA!" is set for "DIG. EEP".
- 4 Register the changed adjustment data as adjusted data, as described for the following procedures, then transfer them as backup data.



- (5) Check if "ADJUSTED" is set for "DIG. EEP" on the PANEL INFORMATION page.
- **6** Turn off the power.

(2) Copying, using the RS-232C commands

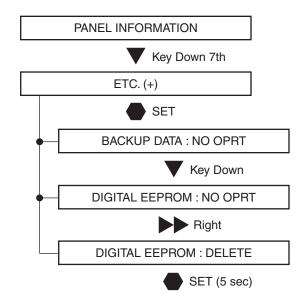
- 1 Turn on the power.
- ② Issue the FAY command.
- 3 With the QS2 command, confirm that the main unit adjustment flag is "adjustment not completed."
- (4) Issue the FAJ command to register the changed adjustment data as adjusted data then transfer them as backup data.
- (5) With the QS2 command, confirm that the main unit adjustment flag becomes "adjustment completed."
- ⑥ Turn off the power.

3. When a secondhand DIGITAL Assy is to be reused

A DIGITAL Assy in good condition that had been mounted in another product can be reused. Before reuse, by following the procedures described below, make the data in the EEPROM on the DIGITAL Assy "adjustment not completed" data in order to prevent accidental updating of backup data when the secondhand DIGITAL Assy is mounted in another product

(1) Copying, using the Factory menu

- 1 Turn on the power.
- 2 Enter the Panel Factory mode.
- 3 Display the PANEL INFORMATION page, then check if "ADJUSTED" is set for "DIG. EEP".
- ④ Make the data in the EEPROM on the DIGITAL Assy "adjustment not completed" data, by following the procedures below:



- ⑤ Check if "NO DATA!" is set for "DIG. EEP" on the PANEL INFORMATION page.
- **6** Turn off the power.

(2) Copying, using the RS-232C commands

- 1) Turn on the power.
- ② Issue the FAY command.
- ③ With the QS2 command, confirm that the main unit adjustment flag is "adjustment completed."
- (4) Issue the UAJ command to make the data in the EEPROM on the DIGITAL Assy "adjustment not completed" data.
- ⑤ With the QS2 command, confirm that the main unit adjustment flag becomes "adjustment not completed."
- 6 Turn off the power.

Note: If you mount a secondhand Assy to the product without performing the above procedures, the adjustment data and logs for the main unit specific to the product will be erased, and those of the secondhand Assy will be copied when the unit is turned off.

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8.3 HOW TO CLEAR HISTORY DATA

Clearance of various logs after the Assys are replaced

Besides adjustment data, data on accumulated power-on time and logs on defective parts of the product are backed up. Some of those data must be cleared after the Assys are replaced for service.

Clearance of those data can be performed in the ETC layer of the Factory menu or with RS232C commands.

		Cleari	ng at the Replace	Clearing method		
Item	Content	Panel	POWER SUPPLY Unit	Other parts	Factory Menu (ETC layer)	RS-232C Commands
Hour-meter	Accumulated power-on time	Must be cleared	No need to be cleared	No need to be cleared	HR-MTR INFO.	СНМ
Pulse-meter	Accumulated number of pulses emitted	Must be cleared (mandatory)	No need to be cleared	No need to be cleared	PM/B1-B5	СРМ
Shutdown history of the panel	Causes and hour-meter values for the last eight shutdowns (SD) of the Panel	Must be cleared	No need to be cleared	No need to be cleared	SD INFO.	CSD
Power-down history	Causes and hour-meter values for the last eight power-downs (PDs) of the Panel	Must be cleared	No need to be cleared	No need to be cleared	PD INFO.	CPD
Power-on counter	Relay-on count	No need to be cleared	Must be cleared (mandatory)	No need to be cleared	P COUNT INFO.	CPC
MAX TEMP	Historical max. temperature of the panel	Must be cleared	Must be cleared	Must be cleared	MAX TEMP.	CMT

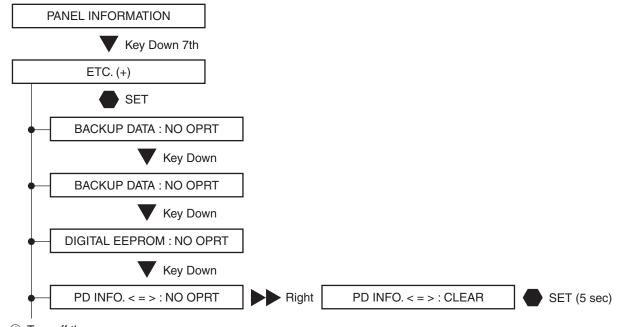
Notes: • As the pulse-meter count is used for each correction function, the log must be cleared when the panel is replaced.

• After you clear the log, the unit must be turned off then back on again to reflect the cleared data for each correction function. If any adjustment is required after clearing the log, be sure to turn the unit off then back on again before adjustment.

(1) Clearance of logs, using the Factory menu

- 1 Turn on the power.
- 2 Enter the Panel Factory mode.
- 3 Clear the various logs, as shown in the figure below.

Note: The following example shows how to clear the PD log (PD INFO.). To clear other items, select each item you wish to clear then perform the same procedures.



4 Turn off the power.

(2) Using the RS-232C commands

- 1 Turn on the power.
- ② Issue the FAY command.
- 3 Issue the Delete command for a log you wish to clear.
- 4 Turn off the power.

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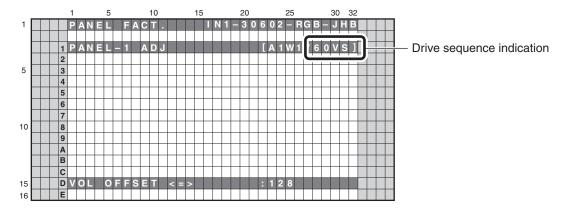
8.4 ADJUSTMENT WHEN THE SERVICE PANEL ASSY IS REPLACED

After the panel is replaced with one for service, voltage margin adjustment is required.

[Preparation]

Basically, voltage margin adjustment is performed using the Panel Factory menu. After the panel is replaced and the unit is turned on, clear the pulse meter first. For details on how to clear the pulse meter, see "8.3 HOW TO CLEAR HISTORY DATA".

- *1: As various corrections are made referring to the pulse-meter count to calculate how long the panel has been used, if adjustment of the panel for service is performed without clearing the pulse-meter count, proper adjustments will not be performed.
- *2: The drive sequence for Video 60-Hz is used for adjustment. When adjustment is made using the Panel Factory menu, the current drive sequence is displayed on the screen, as shown in the figure below. Make sure that 60VS is always indicated during adjustment.
- *3: Selct the input function excepting PC.



Example of the On-Screen display during Panel Factory mode

[Supplement]

In the "PANEL-1ADJ" layer, the Panel White Balance value is reset to default, Panel Gamma is set to Straight, Noise is set to OFF, LUT mode is set to ON and Reset active control is set to OFF.

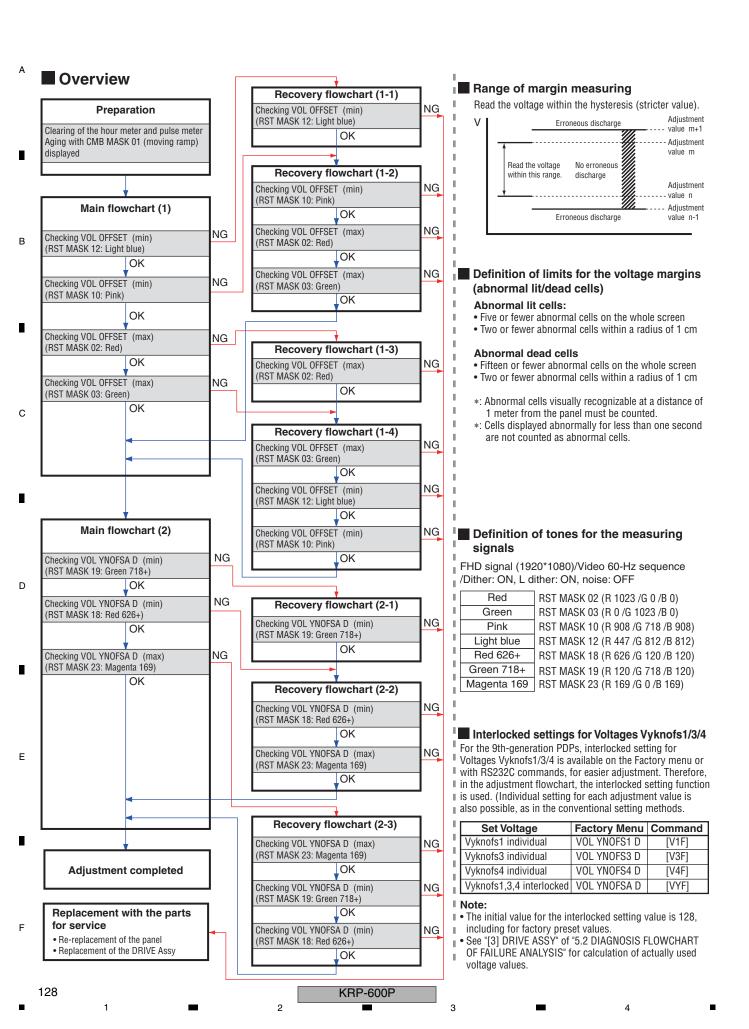
If adjustment is performed using RS232C commands, unlike the case of Factory menu operation, adjustments are not interlocked. Therefore, settings must be performed individually, by issuing commands. (See the section on preparations before adjustment.)

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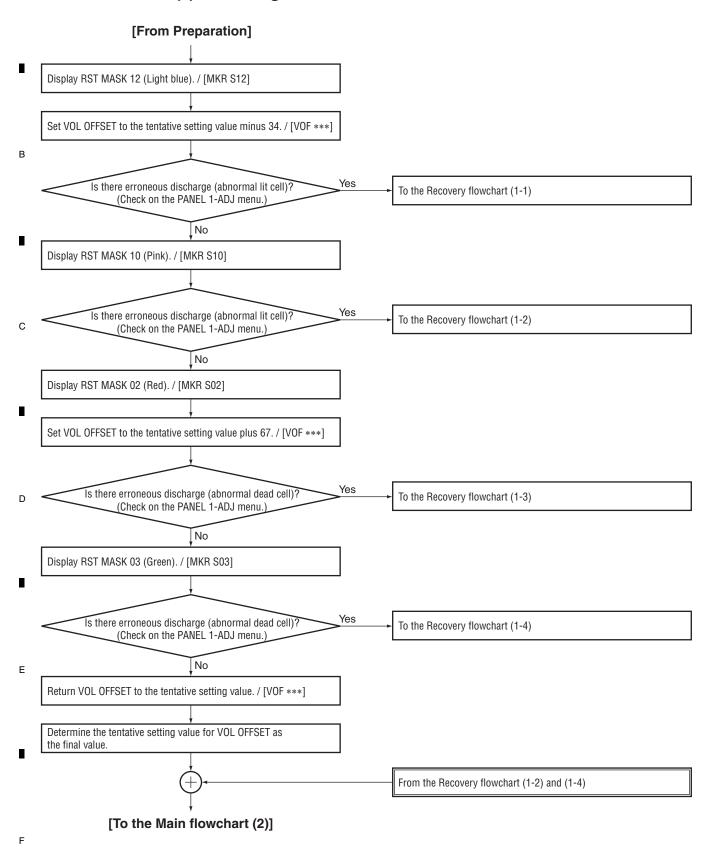
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: Dither ON, L dither ON, noise OFF.

[DIZ S03]

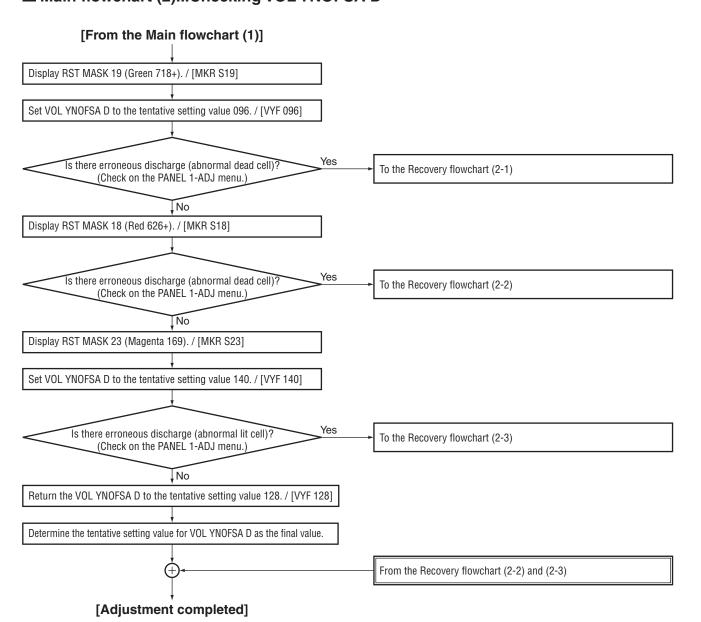
[\$1800000001] : LUT mode ON

■ Main flowchart (1)...Checking VOL OFFSET



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Note:

Make sure that the following values become the final setting values.

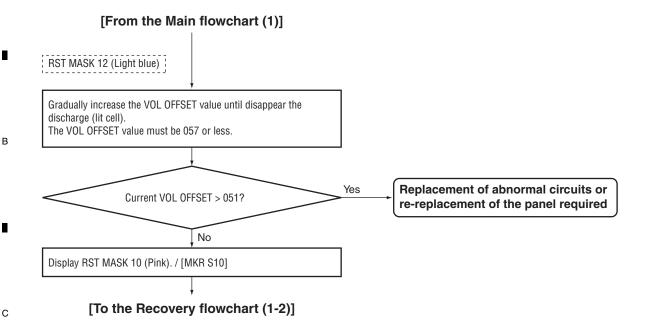
VOL SUS *1
VOL OFFSET
VOL RST P *1
VOL XPOFS1 *1
VOL YNOFS3 D *1
VOL YNOFS4 D *1
VOL YNOFS4 A

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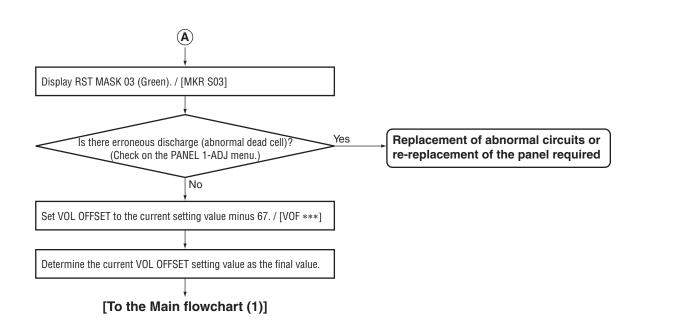
^{*1:} The tentative setting value becomes the final value.

■ Recovery flowchart (1-1)...Changing the VOL OFFSET setting

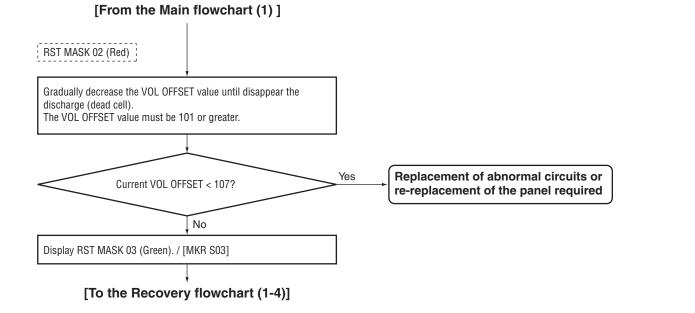


■ Recovery flowchart (1-2)...Changing the VOL OFFSET setting

[From the Main flowchart (1) / Recovery flowchart (1-1)] RST MASK 10 (Pink) Gradually increase the VOL OFFSET value until disappear the discharge (lit cell). The VOL OFFSET value must be 057 or less. Replacement of abnormal circuits or Current VOL OFFSET > 051? re-replacement of the panel required Е No Display RST MASK 02 (Red). / [MKR S02] Set VOL OFFSET to the current setting value plus 100. / [VOF ***] Replacement of abnormal circuits or Is there erroneous discharge (abnormal dead cell)? re-replacement of the panel required (Check on the PANEL 1-ADJ menu.) No 132 KRP-600P



■ Recovery flowchart (1-3)...Changing the VOL OFFSET setting

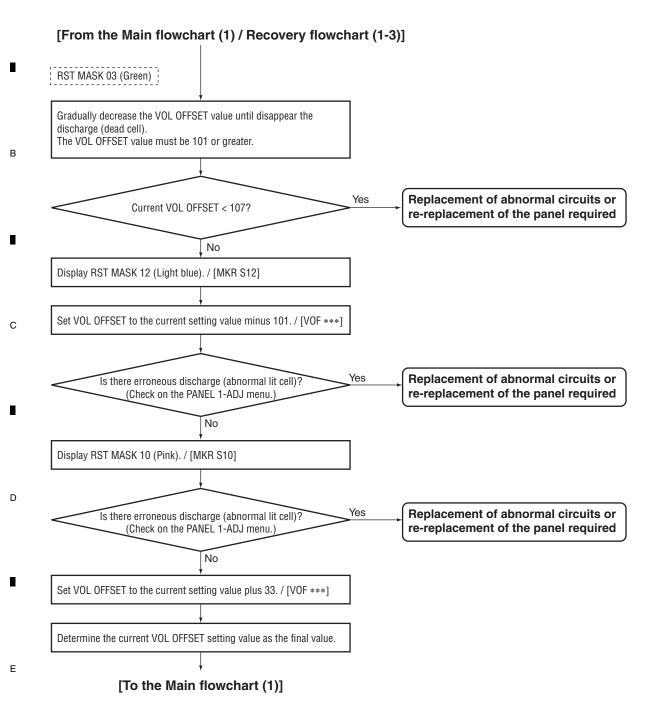


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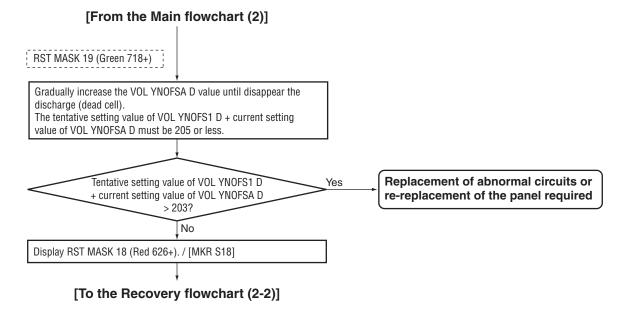
)

■ Recovery flowchart (1-4)...Changing the VOL OFFSET setting



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■ Recovery flowchart (2-1)...Changing the VOL YNOFSA D setting

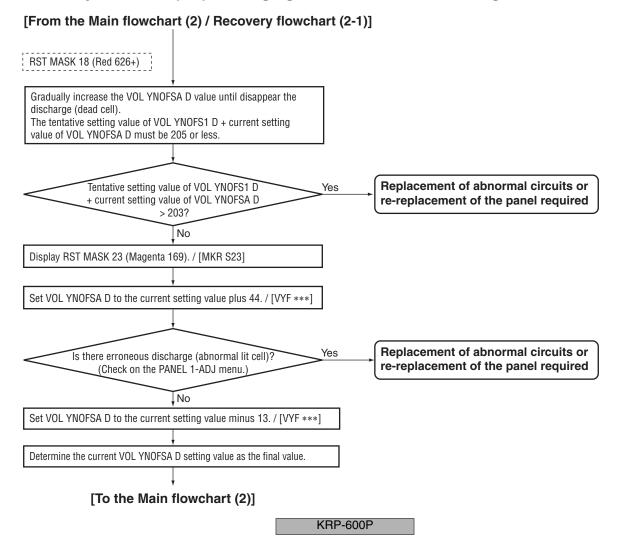


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Recovery flowchart (2-2)...Changing the VOL YNOFSA D setting



[From the Main flowchart (2)] RST MASK 23 (Magenta 169) Gradually decrease the VOL YNOFSA D value until disappear the discharge (lit cell). The tentative setting value of VOL YNOFS1 D + current setting value of VOL YNOFSA D must be 192 or greater. Replacement of abnormal circuits or Tentative setting value of VOL YNOFS1 D + current setting value of VOL YNOFSA D re-replacement of the panel required < 194? No Display RST MASK 19 (Green 718+). / [MKR S19] Set VOL YNOFSA D to the current setting value minus 44. / [VYF ***] Replacement of abnormal circuits or Yes Is there erroneous discharge (abnormal dead cell)? re-replacement of the panel required (Check on the PANEL 1-ADJ menu.) No Display RST MASK 18 (Red 626+). / [MKR S18] Replacement of abnormal circuits or Yes Is there erroneous discharge (abnormal dead cell)? re-replacement of the panel required (Check on the PANEL 1-ADJ menu.) ŪNo Set VOL YNOFSA D to the current setting value plus 32. / [VYF ***]

Determine the current VOL YNOFSA D setting value as the final value.

[To the Main flowchart (2)]

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8.5 ADJUSTMENT WHEN THE DRIVE ASSYS ARE REPLACED

■ Waveform adjustments required when replacing the following parts of the X DRIVE and Y DRIVE Assys.

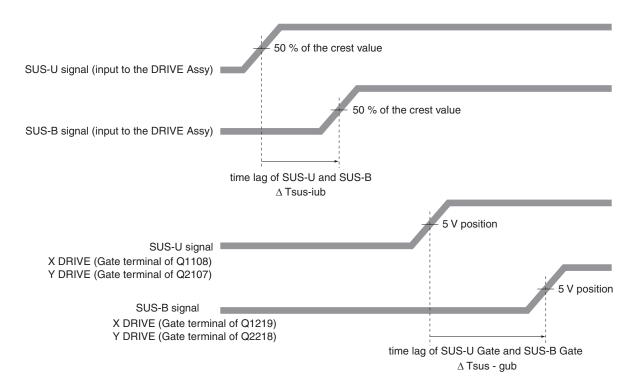
Assy Name	Ref No.	Part Name	Part Category	Remarks
X DRIVE Assy	IC1101	PS9818-1(P)	Photo Coupler	
	IC1104	TND307TD	FET Driver	
	IC1204	PS9818-2(P)	Photo Coupler	
	IC1209	TND307TD	FET Driver	
Y DRIVE Assy	IC2101	PS9818-1(P)	Photo Coupler	
	IC2103	TND307TD	FET Driver	
	IC2201	PS9818-1(P)	Photo Coupler	
	IC2203	TND307TD	FET Driver	

■ TIME LAG ADJUSTMENT OF THE CONTROL SIGNAL (SUS-B)

- ① Measure the time lag for the SUS-U signal to the SUS-B signal.
- ② Check the time lag for the SUS-B Gate signal to the SUS-U Gate signal. Adjust the variable control so that the time lag of Gate becomes " time lag of input signal + $\alpha \pm 5$ nsec."

Note: • Be sure to set the Drive to OFF for adjustment.

• For details on measuring points of waveform, see the figure below.



Time lag of SUS-U Gate and SUS-B Gate : $\Delta \, \text{Tsus}$ - gub

Adjust so that " Δ Tsus - gub = Δ Tsus - iub + α ± 5 nsec, " using the variable controls shown in the table below:

Assy	VR	Value of α
X DRIVE Assy	VR1002	60 nsec
Y DRIVE Assy	VR2002	60 nsec

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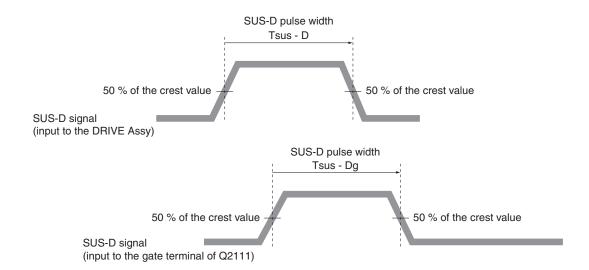
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■ DELAY ADJUSTMENT OF THE CONTROL SIGNAL (SUS-D)

- ① Measure the pulse width of the SUS-D signal.
- ② Check the pulse width of the SUS-D input signal (gate terminal of Q2111).

Adjust the variable control so that the pulse width of the SUS-D input signal (gate terminal of Q2111) becomes the same pulse width \pm 5 nsec as the SUS-D signal.

Note: • For details on measuring points of waveform, see the figure below.



SUS-D pulse width: Tsus - Dg

Adjust so that "Tsus - Dg = Tsus - D \pm 5 nsec," using the variable control shown in the table below:

Assy	VR	
Y DRIVE Assv	VB2001	

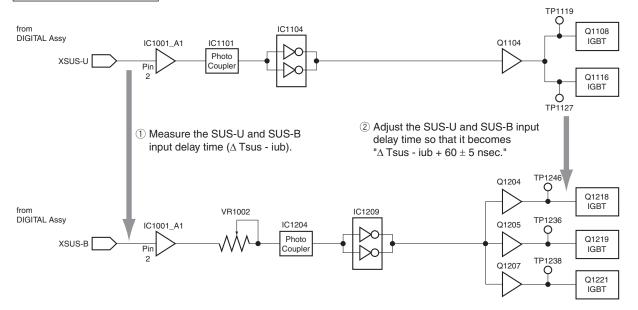
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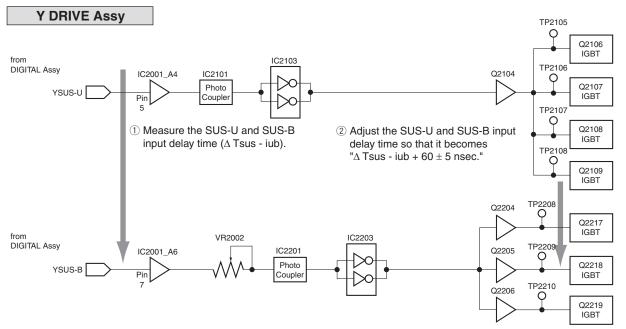
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■ SUS-B ADJUSTMENT

X DRIVE Assy

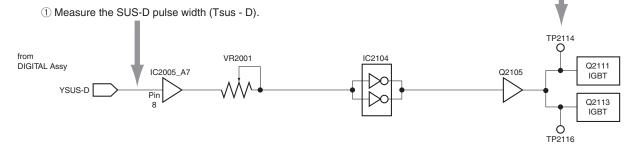




SUS-D ADJUSTMENT

Y DRIVE Assy

 $\ensuremath{\mathbb{Z}}$ Adjust the pulse width (Tsus - Dg) of the SUS-D input signal so that it becomes "Tsus-D \pm 5 nsec."



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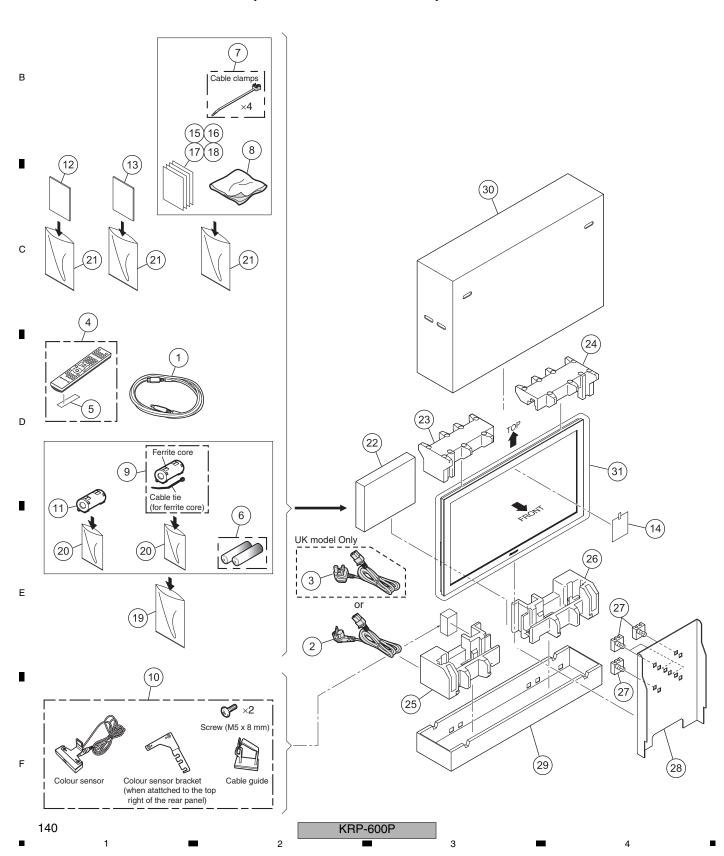
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9. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The extstyle extstyle
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

■ 9.1 PACKING SECTION (KRP-600P/WYSIXK5)



PACKING SECTION PARTS LIST (KRP-600P/WYSIXK5)

FACI	/II4/	3 SECTION PARTS LIST	(KHF-000
<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.
<u> </u>	1	System Cable (2.9 m)	ADF1041
<u> </u>	2	Power Cable	ADG1214
<u> </u>	3	Power Cable	ADG1223
	4	Remote Control Unit	AXD1562
	5	Battery Cover (Black)	AZN2784
NSP	6	Alkaline Dry Cell Battery (LR6, AA)	VEM1045
	7	Binder Assy	AEC2158
	8	Cleaning Cloth	AED1285
\triangle	9	Ferrite Core (L5321)	ATX1039
	10	Color Sensor Module	AXF1196
	11	Ferrite Core (L5320)	CTX1089
	12	Operating Instructions	ARC1609
		(Italian / Dutch / Spanish / Rus	sian)
	13	Operating Instructions	ARE1494
		(English / French / German)	
	14	Caution Card	ARM1310
	15	Cleaning Caution PTK	ARM1311
	16	Ferrite Core Info.	ARM1396
	17	Block Diagram (600M)	ARY1211
NSP	18	Warranty Card EU	ARY7129
NSP	19	Vinyl Pouch	AHG-195
	20	Vinyl Bag	AHG1337
NSP	21	Vinyl Bag	AHG1340
	22	Accessory Box	AHC1122
	23	Pad (6095E T-L)	AHA2747
	24	Pad (6095E T-R)	AHA2748
	25	Pad (6095E B-L)	AHA2749
	26	Pad (6095E B-R)	AHA2750
	27	Pad (6095E C)	AHA2751
	28	Reinforce Carton (6095E)	AHC1121
	29	Under Carton (6095E)	AHD3691
	30	Upper Carton (60P EU)	AHD3728
	21	Mirror Mot	ALICAGOE

31 Mirror Mat

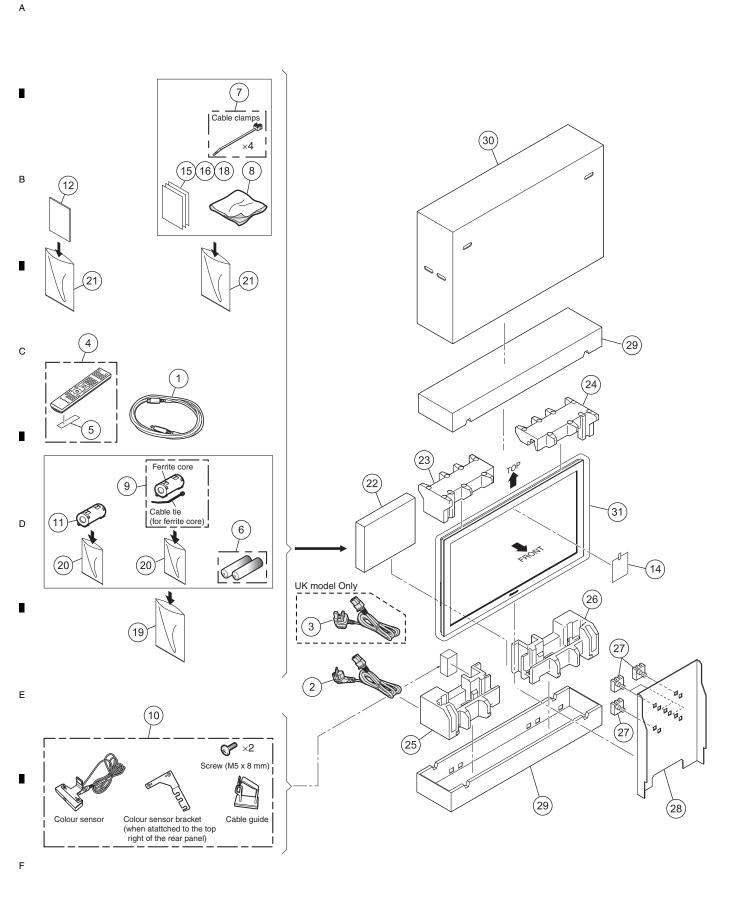
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9.2 PACKING SECTION (KRP-600P/WYS5)



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PACKING SECTION PARTS LIST (KRP-600P/WYS5)

PACE	CINC	SECTION PARTS LIS	ST (KRP-600P/WYS
<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.
<u> </u>	1	System Cable (2.9 m)	ADF1041
<u> </u>	2	Power Cable	ADG1214
<u> </u>	3	Power Cable	ADG1223
	4	Remote Control Unit	AXD1562
	5	Battery Cover (Black)	AZN2784
NSP	6	Alkaline Dry Cell Battery (LR6, AA)	VEM1045
	7	Binder Assy	AEC2158
	8	Cleaning Cloth	AED1285
\triangle	9	Ferrite Core (L5321)	ATX1039
	10	Color Sensor Module	AXF1196
	11	Ferrite Core (L5320)	CTX1089
	12	Operating Instructions (Russian)	ARC1619
	13	••••	
	14	Caution Card	ARM1232
	15	Cleaning Caution (11L)	ARM1283
	16	Ferrite Core Info.	ARM1395
	17	••••	
NSP	18	Warranty Card EU	ARY7127
NSP	19	Vinyl Pouch	AHG-195
	20	, ,	AHG1337
NSP	21	,	AHG1340
	22	Accessory Box	AHC1083
	23	Pad (6095 T-L)	AHA2752
	24	Pad (6095 T-R)	AHA2753
	25	Pad (6095 B-L)	AHA2754
	26	Pad (6095 B-R)	AHA2755
	27	Center Pad	AHA2687
	28	Reinforce Carton (6095)	AHC1123
	29	Under Carton (6095)	AHD3693
	30	Upper Carton (60P EUJ)	AHD3729

AHG1385

31 Mirror Mat

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31 Power Cable Note: When only the cable tie is necessary, please order a nylon binder (AEC-093). Ferrite core Cable tie (for ferrite core)

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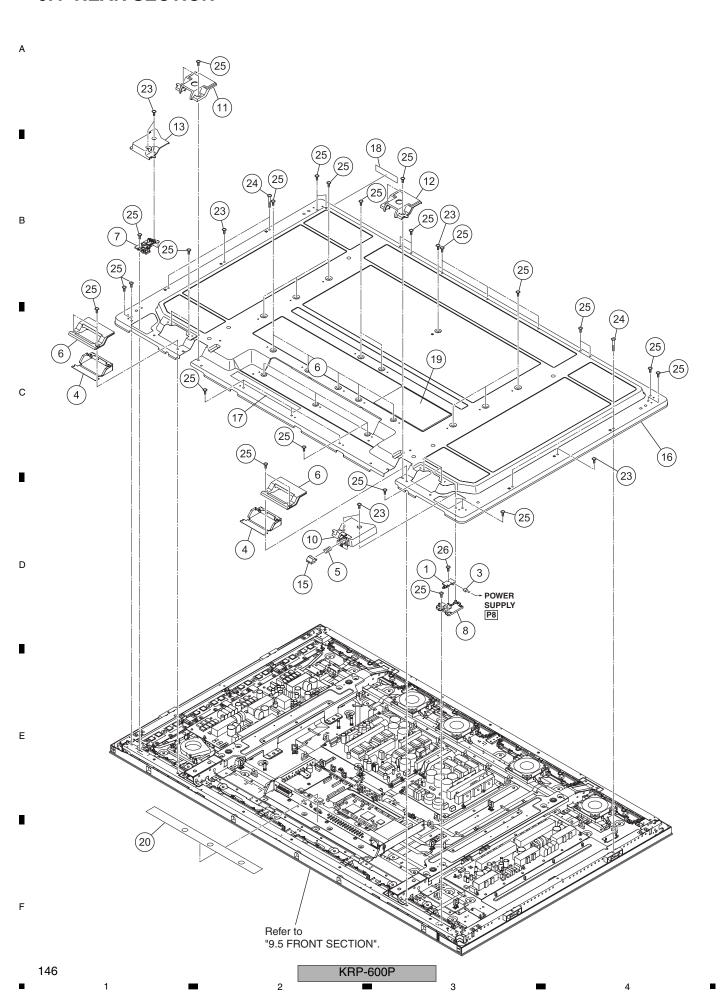
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PACKING SECTION PARTS LIST (KRP-600P/WA5)

FACKING SECTION FARTS LIST (KRF-000F/WAS)						
<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.			
<u> </u>	1	System Cable (2.9 m)	ADF1041			
<u> </u>	2	AC Power Cord	ADG1209			
	3	••••				
	4	Remote Control Unit	AXD1569			
	5	Battery Cover (Black)	AZN2784			
NSP	6	Dry Cell Battery (R6, AA)	VEM1031			
	7	Binder Assy	AEC2158			
	8	Cleaning Cloth	AED1285			
<u> </u>	9	Ferrite Core (L5321)	ATX1039			
	10	••••				
	11		AD04040			
	12	Operating Instructions	ARC1610			
	13	(Simp-Chinese)				
	14	Caution Card (PC)	ARM1302			
	14	Caulion Gard (PC)	ANW 1302			
	15	Cleaning Caution (11L)	ARM1283			
	16	••••				
	17	••••				
NSP	18	Warranty Card	ARY1161			
	19	••••				
	20	Vinyl Bag	AHG1336			
NSP	21	Vinyl Bag	AHG1340			
	22	Accessory Box	AHC1083			
	23	Pad (6095 T-L)	AHA2752			
	24	Pad (6095 T-R)	AHA2753			
	05	D-4 (0005 D 1)	ALIA 0754			
	25	Pad (6095 B-L)	AHA2754			
	26	Pad (6095 B-R)	AHA2755			
	27	Center Pad Painforce Corton (6005)	AHC1122			
	28	Reinforce Carton (6095)	AHDOSOO			
	29	Under Carton (6095)	AHD3693			
	30	Upper Carton (60P C)	AHD3731			
	31	Mirror Mat	AHG1385			

AEC-093

32 Nylon Binder



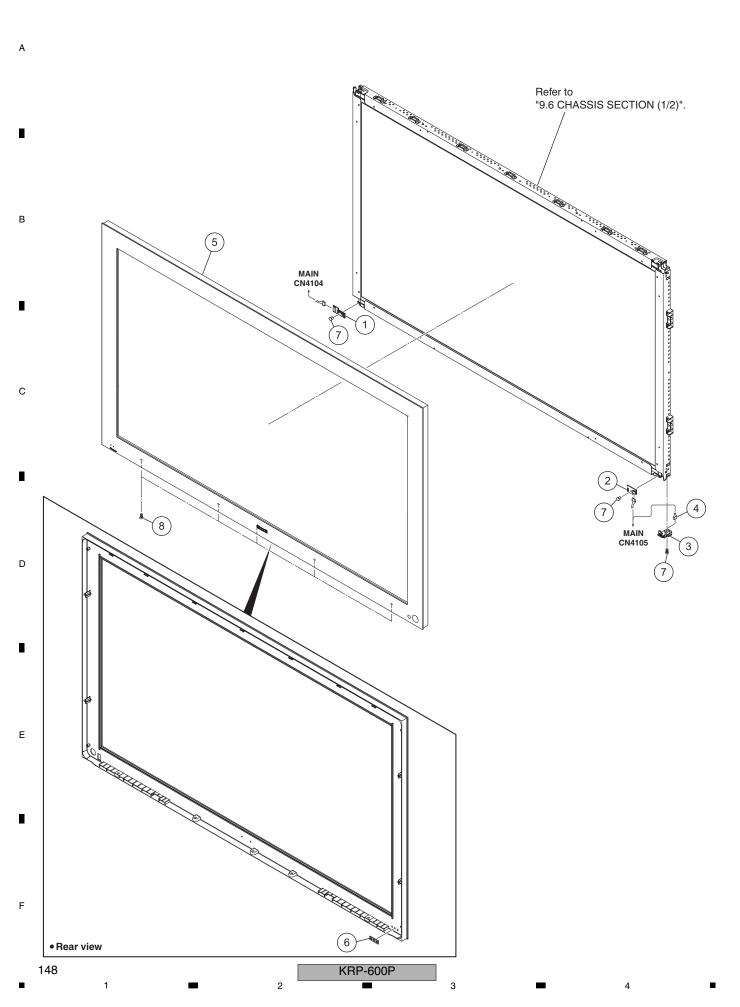
(1) REAR SECTION PARTS LIST

<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.
	1	POW SW Assy	AWW1395
	2	••••	
	3	3P Housing Wire (J103)	ADX3655
	4	Under Grip Shield	ANG3169
	5	Coil Spring	ABH1125
	6	Under Grip	AMR3811
	7	Operation Button Holder	AMR3815
	8	Power Button Support	AMR3878
	9	••••	
	10	Power Button Case	AAK2938
	11	Stand Cover (L)	AMR3876
	12	Stand Cover (R)	AMR3804
	13	OP. Button Cover (S)	AMR3882
	14	••••	
	15	Power Button (508F)	AAD4152
<u> </u>	16	Rear Case Assy (60M)	ANE1689
NSP	17	Name Label	See Contrast table (2)
	18	Serial Sheet	AAX3143
	19	Caution Label	See Contrast table (2)
	20	Terminal Label	See Contrast table (2)
	21	••••	
	22	••••	
	23	Screw (3 x 8 P)	ABA1379
	24	Screw (3 x 25 P)	ABA1380
	25	N Grip Screw (M3 x 6)	ABA1381
	26	Screw	APZ30P080FTB

(2) CONTRAST TABLE KRP-600P/WYSIXK5, WYS5 and WA5 are constructed the same except for the following:

Mark	No.	Symbol and Description	KRP-600P /WYSIXK5	KRP-600P /WYS5	KRP-600P /WA5
NSP	17	Name Label (60P-EU)	AAL3066	Not used	Not used
NSP	17	Name Label (60P-EUJ)	Not used	AAL3067	Not used
NSP	17	Name Label (60P-C)	Not used	Not used	AAL3069
	19	Caution Label (60M-EU)	AAX3592	AAX3592	Not used
	19	Caution Label (60P-C)	Not used	Not used	AAX3613
	20	Terminal Label (60S-EU)	AAX3597	AAX3597	Not used
	20	Terminal Label (60S-CH)	Not used	Not used	AAX3605

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FRONT SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.
1	LED Assy	AWW1399
2	RLS Assy	AWW1401
3	IR Assy	AWW1400
4	6/3/3P Housing Wire (J117)	ADX3705
5	Front Bezel (60MSEP)	AMB3109
6	Blind Cushion (508F)	AEB1479
7	Nylon Rivet	AEC1671
8	Rivet (Plastic)	AEC1877

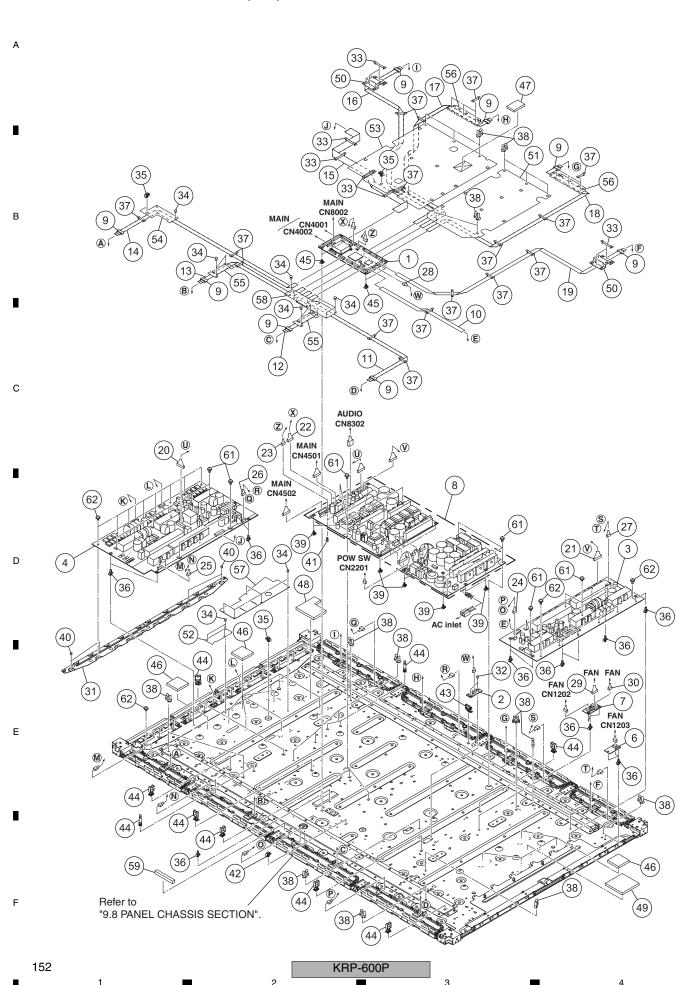
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CHASSIS SECTION (1/2) PARTS LIST

Mark		Description	Part No.
<u></u>		DC FAN Motor 80 x 15L	·
<u>(1)</u>	1		AXM1065
<u> </u>	2	DC FAN Motor 75 x 12T	AXM1066
	3 4	Top Frame (60M)	ANG3166 ANG3165
		Center Frame (60M)	
	5	Sub Frame Assy (60M)	ANA2162
\triangle	6	F. Chassis V Assy (60M)	ANA2163
\triangle	7	F. Chassis HT Assy (60M)	ANA2167
<u> </u>	8	F. Chassis HB (60M)	ANA2166
	9	Wire Clip	AEC1948
	10	Reuse Wire Saddle	AEC2134
	11	F. Chassis H Guide	AMR3756
	12	FAN Bracket	AMR3805
	13	Front Bezel Support	AMR3806
	14	Support Bracket V	AMR3807
	15	Rear Case Support	AMR3808
	16	Coner Spacer	AMR3818
	17	FAN Bracket Y	AMR3885
<u> </u>	18	Address Gasket	ANK1947
<u> </u>	19	Front Gasket H	ANK1960
<u> </u>	20	Front Gasket V	ANK1961
	21	Under Cover	ANG3168
	22	Under Cover Bracket	ANG3195
	23	Drive Wire Saddle	AMR3850
	24	Cushion	AEB1503
	25	••••	
	26	Screw	ABA1351
	27	N Grip Screw (M3 x 6)	ABA1381
	28	Screw	ABZ30P060FTB
	29	Screw	ABZ30P080FTC
	30	Screw	AMZ30P060FTB
	31	Screw	AMZ40P080FTB
	32	Screw	APZ30P080FTB
	33	Screw	BMZ30P080FTB
	34	Screw	BPZ30P080FTB
	35	Screw	PPZ50P100FTB
	36	Screw	TBZ40P060FTC



CHASSIS SECTION (2/2) PARTS LIST

СНА	SSI	S SECTION (2/2) PARTS	LIST				
<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.	<u>Mark</u>	No.	<u>Description</u>	Part No.
	1	60F DIGITAL Assy	AWW1339		46	Drive Sheet	AEH1155
	2	SENSOR Assy	AWW1340	\triangle	47	Power Assy Silicon	AEH1181
	3	60F X DRIVE Assy	AWV2597		48	Y Drive Silicon	AEH1184
	4	60F Y DRIVE Assy	AWV2598		49	X Drive Silicon	AEH1185
	5	••••			50	FAN Sheet A	AMR3764
	6	SENS Assy	AWW1396	\triangle	51	Power Sheet B	AMR3767
	7	FAN CH Assy	AWW1397		52	Y Drive Sheet B	AMR3769
<u> </u>	8	POWER SUPPLY Unit	AXY1201	\triangle	53	Power Sheet 95A	AMR3809
<u></u>	9	Ferrite Core (F1 - F8)	ATX1072	_	54	Y Drive Sheet C	AMR3819
	10	Flexible Cable (J201)	ADD1550		55	FFC Sheet	AMR3821
		Florible Oakle (1999)	ADD4554		56	FAN Sheet B	AMR3831
	11	Flexible Cable (J202)	ADD1551	\triangle	57	Y Drive Sheet A (M)	AMR3881
	12	Flexible Cable (J203)	ADD1552		58	DIGITAL Sheet (M)	AMR3884
	13	Flexible Cable (J204)	ADD1553		59	Gasket (10 x 10 x 80)	ANK1974
	14	Flexible Cable (J205)	ADD1554		60	••••	ANTOTA
	15	Flexible Cable (J206)	ADD1555		00		
	16	Flexible Cable (J207)	ADD1556		61	Screw	ABA1351
	17	Flexible Cable (J208)	ADD1557		62	Screw	ABA1364
	18	Flexible Cable (J209)	ADD1558				
	19	Flexible Cable (J210)	ADD1559				
	20	12P/11P Housing Wire (J101)	ADX3649				
	21	11P Housing Wire (J102)	ADX3650				
	22	10P Housing Wire (J106)	ADX3652				
	23	6P Housing Wire (J107)	ADX3656				
	24	5/3/3P Housing Wire (J112)	ADX3658				
	25	5/3/3P Housing Wire (J113)	ADX3659				
	26	5/3/3P Housing Wire (J114)	ADX3660				
	27	5/3/3P Housing Wire (J115)	ADX3661				
	28	5P Housing Wire (J108)	ADX3662				
	29	9/3/3P Housing Wire (J130)	ADX3666				
	30	7/3/3P Housing Wire (J131)	ADX3667				
	31	Plate Y	ANG3133				
	32	Nylon Rivet	AEC1671				
	33	Flat Clamp	AEC1879				
	34	Nylon Rivet	AEC2089				
	35	Reuse Card Spacer	AEC2117				
	36	PCB Spacer (Reuse)	AEC2122				
	37	Flat Clamp	AEC2132				
	38	Reuse Wire Saddle	AEC2134				
	39	Reuse PCB Spacer 6.0	AEC2135				
	40	Cap Spacer	AEC2145				
	41	Mini PCB Spacer 5.0	AEC2149				
	41	Reuse Card Spacer S	AEC2149 AEC2153				
	43	Reuse Clamp S	AEC2153 AEC2154				
	43	Reuse Fastener S	AEC2154 AEC2155				
	45	Reuse PCB Spacer 4.5B	AEC2161				
	70	riodoc i Ob Opacei 4.00	, (LOZ 101				

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PANEL CHASSIS SECTION PARTS LIST

LWIAL	FANLE CHASSIS SECTION FARTS LIST						
<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.				
NSP	1	60F ADDRESS L Assy	AWW1341				
NSP	2	60F ADDRESS S Assy	AWW1342				
NSP	3	60F SCAN A Assy	AWW1343				
NSP	4	60F SCAN B Assy	AWW1344				
NSP	5	60F SCAN C Assy	AWW1345				
NSP	6	60F SCAN D Assy	AWW1346				
NSP	7	P. Chassis (609FE) Assy	AWU1288				
NSP	8	P. Panel (60FE) Assy	AWU1290				
	9	Reuse PCB Spacer 4.5B	AEC2161				
	10	Scan Sheet	AEH1154				
	11	Plate Holder	AMR3757				
	12	Address Holder Assy L	AMR3758				
	13	Address Holder Assy S	AMR3759				
	14	Plate X	ANG3132				
<u> </u>	15	Address Heatsink S	ANH1704				
<u> </u>	16	Address Heatsink L	ANH1705				
	17	PCB Spacer (Reuse)	AEC2122				
	18	Address Silicon A	AEH1146				
	19	Address Silicon C	AEH1156				
	20	3 Piece Connector 15P (CN101)AKM1393				
	21	3 Piece Connector 15P (CN102)AKM1393				
	22	••••					
	23	••••					
	24	Screw	ABA1351				
	25	Screw (M3 x 6) SN	ABA1366				
	26	Screw	ABA1351				

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POWER SUPPLY P6 P7

IR CN2101 RLS CN2701

LED CN2001

CN3202

60F DIGITAL

(19)

CN3201

(6)

(16)

SENS CN2401

(15) FAN CH CN3304

POWER SUPPLY P3

(10)

POWER SUPPLY

9

В

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(30)

60F DIGITAL CN3203

MULTIBASE SECTION PARTS LIST

<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.
	1	MAIN Assy	AWW1393
	2	FAN Assy	AWW1394
	3	AUDIO Assy	AWW1398
\triangle	4	AC Inlet (CN1)	AKP1336
	5	Flexible Cable (J211)	ADD1582
	6	Flexible Cable (J212)	ADD1583
<u> </u>	7	Housing Wire (J104)	ADX3607
\triangle	8	Housing Wire (J105)	ADX3651
	9	5P Housing Wire (J111)	ADX3697
	10	15P Housing Wire (J110)	ADX3698
	11	14P Housing Wire (J109)	ADX3699
	12	6P Housing Wire (J140)	ADX3700
	13	6P Housing Wire (J120)	ADX3701
	14	13P Housing Wire (J133)	ADX3702
	15	3P Housing Wire (J134)	ADX3703
	16	7/6P Housing Wire (J116)	ADX3704
	17	Wire Saddle	AEC1745
	18	PCB Support	AEC1938
	19	PCB Spacer (Reuse)	AEC2087
	20	Reuse Mini Saddle	AEC2160
	21	Silicon Sheet MTB A	AEH1174
	22	Silicon Sheet	AEH1177
	23	Inlet Sheet	AMR3875
	24	Multi Base Assy SEP	ANA2229
	25	Terminal Panel SEP	ANC2479
	26	AUDIO Heatsink	ANH1723
	27	••••	
	28	••••	
	29	Hexagon Headed Screw	ABA1382
	30	N Grip Screw (M3 x 6)	ABA1381
	31	Screw	AMZ30P060FTB
<u> </u>	32	Screw	BMP40P080FSN
	33	Screw	BMZ30P060FTB
	34	Screw	BPZ30P080FTB

35 Screw

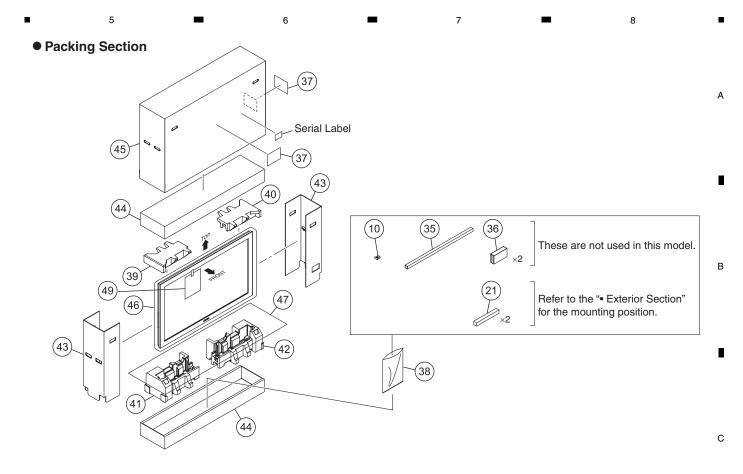
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PDP SERVICE ASSY 609FE: AWU1379 Exterior Section 23) (30) (15) (30) (32) 20



PDP SERVICE ASSY PARTS LIST

		TVICE ASST PARTS LIS		B. 0 2	NI.	Description	Down No.	
<u>Mark</u>	No.	<u>Description</u>	Part No.	Mark		<u>Description</u>	Part No.	
NSP	1	P. Chassis (609FE) Assy	AWU1344		26	••••		
	2	Sub Frame Assy	ANA2127		27	Screw	ABA1351	
	3	F. Chassis VL Assy	ANA2184		28	Screw (M3 x 6) SN	ABA1366	
	4	F. Chassis VR Assy	ANA2128		29	Screw (3 x 25 P)	ABA1380	
	5	F. Chassis HT Assy	ANA2132		30	Screw	ABZ30P080FTC	
	^	E Chassis LID Assu	ANIA0400		31	Screw	AMZ30P060FTB	D
	6	F. Chassis HB Assy	ANA2133		32	Screw	APZ30P080FTB	
•	7	Plate X	ANG3132		33	Screw	BMZ30P080FTB	
<u>^</u>	8	Address Heatsink S	ANH1704		34	Screw	TBZ40P060FTC	
<u> </u>	9	Address Heatsink L	ANH1705		35	Gasket (10 x 10 x 280)	ANK2002	
	10	Ferrite Core Holder	AEC1818		33	Gasket (10 x 10 x 200)	ANNZUUZ	
	11	PCB Spacer (Reuse)	AEC2122		36	Gasket (15 x 55 x 30)	ANK2003	
	12	Address Silicon A (508)	AEH1146		37	Caution Label	AAX3031	
	13	Address Silicon C	AEH1156		38	Vinyl Bag	AHG1336	
	14	Inner Grip Assy	AMR3434		39	Pad (609 T-L)	AHA2722	
	15	Front Bezel Support	AMR3755		40	Pad (609 T-R)	AHA2723	Ε
					44	Dad (000 D I)	ALIA 070 4	
	16	F. Chassis H Guide	AMR3756		41	Pad (609 B-L)	AHA2724	
	17	Support Bracket	AMR3762		42	Pad (609 B-R)	AHA2725	
	18	Address Gasket	ANK1947		43	Sub Carton LR (609E)	AHC1110	
	19	Front Gasket H	ANK1960		44	Under Carton (609E)	AHD3666	
	20	Front Gasket V	ANK1961		45	Upper Carton (609SERV)	AHD3724	
	21	Gasket (10 x 10 x 80)	ANK1974		46	Protect Sheet	AHG1401	
NSP		Front Bezel (609SERV)	AMB3106		47	Mirror Mat	AHG1402	
	23	Rear Case Assy 60	ANE1686		48	Rivet (Plastic)	AEC1877	
NSP		Drive Voltage Label	ARW1097	NSP	49	Caution Sheet (9G)	ARM1398	F
	25	• • • • •				, ,		
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■ Disassembly / Reassembly of the Service Panel Assy

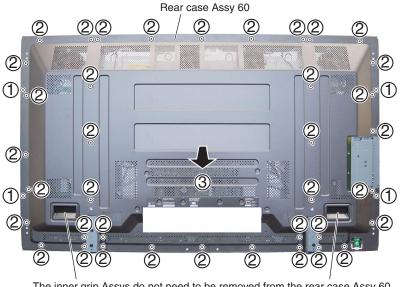
The panel for service for the 60-inch integrated-type monitor for overseas is used as the panel for service for the 60-inch 9G monitor. Before it can be used for servicing the 9G monitor, it is necessary to replace some of its parts with those from the chassis of the panel to be repaired.

Disassemble/reassemble the panel for service in the manner shown below.

Procedures for removing unnecessary parts

1 Rear Case Assy 60

- (1) Remove the four screws. (ABA1380)
- (2) Remove the 38 screws. (AMZ30P060FTB)
- (3) Remove the rear case Assy 60.

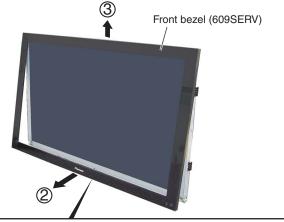


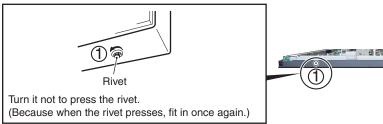
The inner grip Assys do not need to be removed from the rear case Assy 60.

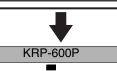


2 Front Bezel (609SERV)

- (1) Remove the five rivets.
- 2 Pull the lower part of the front bezel (609SERV) toward you and out.
- (3) Remove the front bezel (609SERV), by pulling it upward.



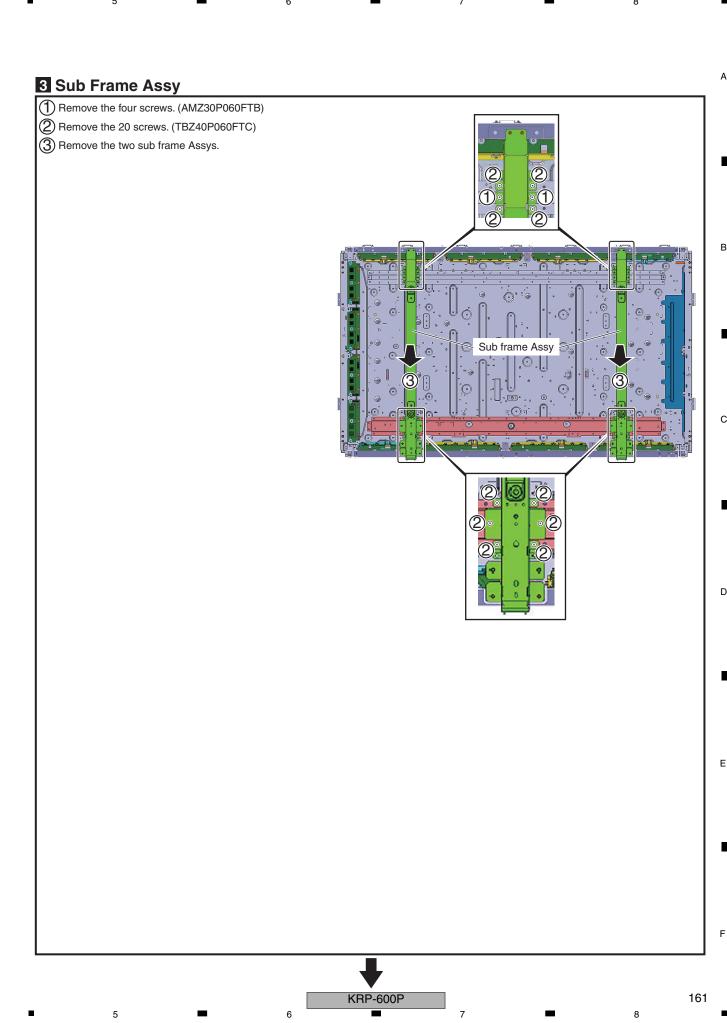




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Front side

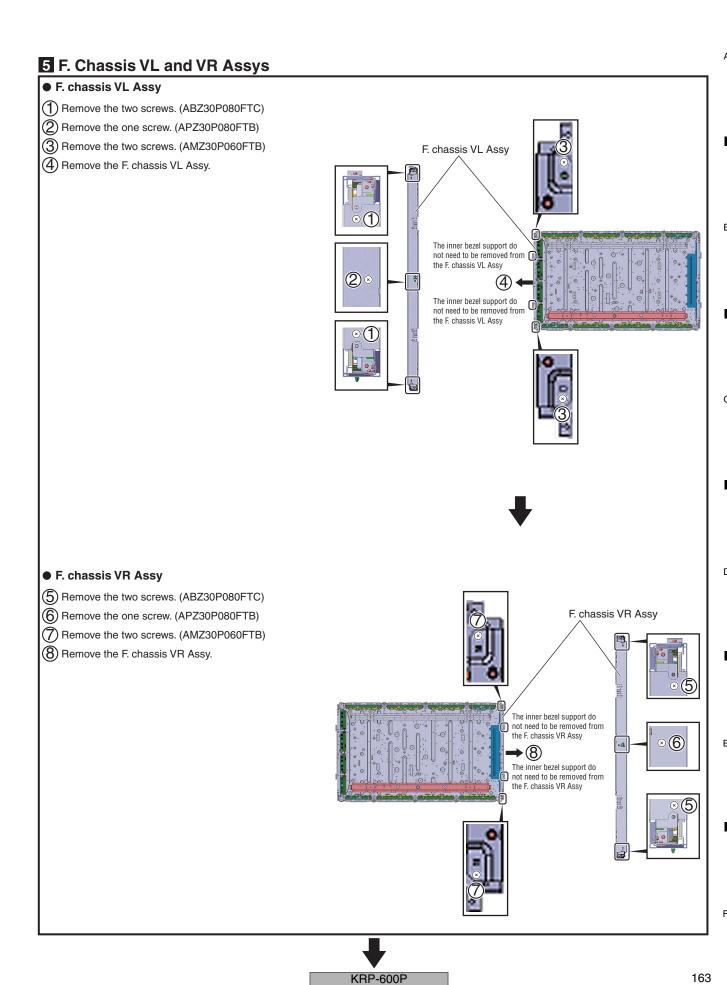


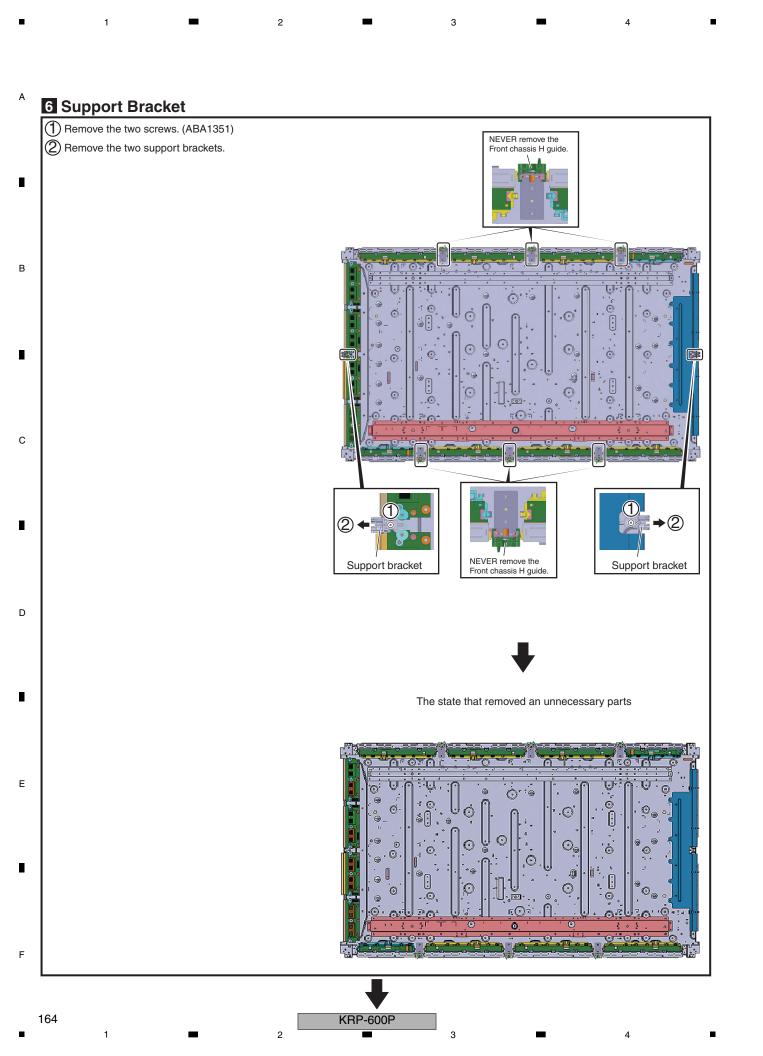
4 F. Chassis HT and HB Assys ● F. chassis HT Assy (1) Remove the two screws. (ABZ30P080FTC) (2) Remove the three screws. (APZ30P080FTB) Remove the two screws. (AMZ30P060FTB) (4) Remove the F. chassis HT Assy. F. chassis HT Assy • F. chassis HB Assy (5) Remove the two screws. (ABZ30P080FTC) (6) Remove the three screws. (APZ30P080FTB) (7) Remove the two screws. (AMZ30P060FTB) F. chassis HB Assy (8) Remove the F. chassis HB Assy.

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В



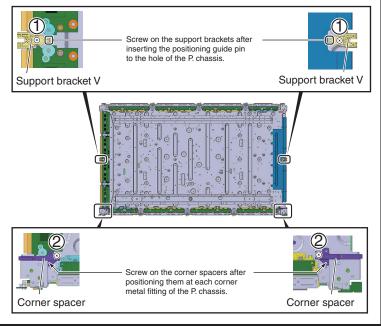


Procedures for reattaching the parts from this model

(Remove the necessary parts from the panel being repaired then reattach them to the panel for service.)

1 Support Bracket V and Corner Spacer

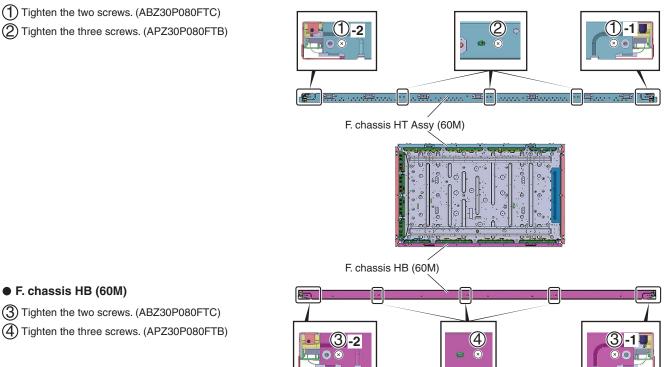
- Tighten the two screws, and attatch the two support brackets V. (ABA1351)
- (2) Tighten the two screws, and attatch the two corner spacer. (ABA1351)





2 F. Chassis HT Assy (60M) and F. Chassis HB (60M)







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